



Safety Data Sheet according to Regulation (EC) No1907/2006

Page 1 of 10

SDS No. : 454721

V001.2

Pattex 100% Repair Gel

Revision: 06.08.2014

printing date: 18.02.2020

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

1.1. Product identifier

Pattex 100% Repair Gel

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

Intended use:

Reaction adhesives

1.3. Details of the supplier of the safety data sheet

Henkel South Africa (Pty) Ltd
C/O Mill & Iscor Streets, Bellville South,
7530 Western Cape

South Africa

Phone: +27 21 951 7011

Rodgers.Reddy@za.Henkel.com

1.4. Emergency telephone number

0800 202 202

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).

Classification (DPD):

No classification required.

2.2. Label elements

Label elements (CLP):

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

Supplemental information

Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

Precautionary statement:

P102 Keep out of reach of children.

Label elements (DPD):

Safety phrases:

S2 Keep out of the reach of children.

Additional information:

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

2.3. Other hazards

Evolves methanol during cure.

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

1-Component assembly adhesive

Base substances of preparation:

Trimethoxysilane

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 | < 10 % | Flammable liquids 3 H226 Acute toxicity 4; Inhalation H332 |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | 217-164-6 | < 1 % | Skin sensitizer 1; Dermal H317 Serious eye damage/eye irritation 1 H318 Acute toxicity 4; Inhalation H332 |

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.

Declaration of ingredients according to DPD (EC) No 1999/45:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|-----------------------------------------------------------|----------------------------|---------|-------------------------------------------------------------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | 220-449-8 | < 10 % | R10 Xn - Harmful; R20 |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | 217-164-6 | < 1 % | N - Dangerous for the environment; R51/53 Xn - Harmful; R20 Xi - Irritant; R41, R43 |

For full text of the R-Phrases indicated by codes 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:

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. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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:

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 (CO₂) 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.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

Ensure adequate ventilation.

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 frost-free.

Temperatures between + 5 °C and + 35 °C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)
Reaction adhesives**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**Valid for
South Africa

| Ingredient | ppm | mg/m ³ | Type | Category | Remarks |
|---------------------------------------|-----|-------------------|-----------------------------------|-----------------------------------|---------|
| METHYL ALCOHOL METHANOL 67-56-1 | | | Skin designation: | Can be absorbed through the skin. | ZA REL |
| METHANOL METHYL ALCOHOL 67-56-1 | 250 | 310 | Short Term Exposure Limit (STEL): | | ZA REL |
| METHYL ALCOHOL METHANOL 67-56-1 | 200 | 260 | Time Weighted Average (TWA): | | ZA REL |

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) | | | | | 0,34 mg/L | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | | | | 0,034 mg/L | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (intermittent releases) | | | | | 3,4 mg/L | |
| Trimethoxyvinylsilane 2768-02-7 | STP | | | | | 110 mg/L | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (freshwater) | | | | 0,27 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (marine water) | | | | 0,12 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | soil | | | | 0,046 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 | worker | Dermal | Long term exposure - systemic effects | | 0,69 mg/kg bw/day | |
| Trimethoxyvinylsilane 2768-02-7 | worker | inhalation | Long term exposure - systemic effects | | 4,9 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | general population | Dermal | Acute/short term exposure - systemic effects | | 26,9 mg/kg bw/day | |
| Trimethoxyvinylsilane 2768-02-7 | general population | inhalation | Acute/short term exposure - systemic effects | | 93,4 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | general population | Dermal | Long term exposure - systemic effects | | 0,3 mg/kg bw/day | |
| Trimethoxyvinylsilane 2768-02-7 | general population | inhalation | Long term exposure - systemic effects | | 1,04 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | general population | oral | Long term exposure - systemic effects | | 0,3 mg/kg bw/day | |
| Trimethoxyvinylsilane 2768-02-7 | worker | Dermal | Acute/short term exposure - systemic effects | | 0,69 mg/kg bw/day | |
| Trimethoxyvinylsilane 2768-02-7 | worker | inhalation | Acute/short term exposure - systemic effects | | 4,9 mg/m ³ | |

Biological Exposure Indices:

None

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

Suitable breathing mask when there is inadequate ventilation.

Filter : AX

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.

Eye protection:

Protective goggles

Skin protection:

Suitable protective clothing

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

Appearance

liquid
high viscosity
colourless, clear

Odor

odorless

Odour threshold

No data available / Not applicable

pH

No data available / Not applicable

Initial boiling point

No data available / Not applicable

Flash point

74 °C (165.2 °F); no method

Decomposition temperature

No data available / Not applicable

| | |
|--------------------------------------------|------------------------------------|
| Vapour pressure | No data available / Not applicable |
| Density (20 °C (68 °F)) | 1,10 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Viscosity (Brookfield; 23 °C (73.4 °F)) | 150.000 - 250.000 mPa.s |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Solubility (qualitative) | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Melting point | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Explosive limits | |
| lower | 1,4 % (V) |
| upper | 50,0 % (V) |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Evaporation rate | No data available / Not applicable |
| Vapor density | 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

Evolves methanol during cure.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Skin irritation:

Primary skin irritation: slightly irritating, does not require labeling

Eye irritation:

Primary eye irritation: slightly irritating, does not require labeling

Sensitizing:

An allergic reaction cannot be excluded after repeated skin contact.

Acute oral toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|-----------------------------------------------------------|---------------|---------------|-------------------------|------------------|---------|------------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 7.120 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | LD50 | 2.413 mg/kg | oral | | rat | |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | LD50 | > 2.000 mg/kg | | | rat | |

Acute inhalative toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|------------------------------------|---------------|-----------|-------------------------|------------------|---------|------------------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 16,8 mg/l | inhalation | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Acute dermal toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|-----------------------------------------------------------|---------------|---------------|-------------------------|------------------|---------|--------|
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 3.540 mg/kg | dermal | | rabbit | |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | LD50 | > 2.009 mg/kg | dermal | | rat | |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|-----------------------------------------------------------|-------------------|------------------|---------|-------------------------------------------------------|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | highly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|-----------------------------------------------------------|-------------|------------------------------------|------------|-----------------------------------------------------------------|
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | sensitising | Mouse local lymphnode assay (LLNA) | guinea pig | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

SECTION 12: Ecological information**General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|------------------------------------------------------------|---------------|------------|----------------------------|------------------|--------------------------------|------------------------------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 191 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | Algae | 72 h | | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | LC50 | 168 mg/l | Fish | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | EC50 | 87,4 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | NOEC | 3,1 mg/l | Algae | 96 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | EC50 | 8,8 mg/l | Algae | 96 h | Pseudokirchnerella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | NOEC | > 1 mg/l | chronic Daphnia | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

12.2. Persistence and degradability

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|------------------------------------------------------------|--------|-------------------------|---------------|--------------------------------------------------------------------------------|
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | | aerobic | 50 % | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------------------------------------|--------|----------------------------------|------------------|---------|-------------|--------|
| N-(3-(Trimethoxysilyl)propyl)ethyl enediamine 1760-24-3 | -1,67 | | | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous components CAS-No. | PBT/vPvB |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Trimethoxyvinylsilane 2768-02-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | 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:

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

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

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

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADNR | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.2. UN proper shipping name

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADNR | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.3. Transport hazard class(es)

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADNR | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.4. Packaging group

| | |
|------|---------------------|
| ADR | Not dangerous goods |
| RID | Not dangerous goods |
| ADNR | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

14.5. Environmental hazards

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

14.6. Special precautions for user

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

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 0,00 %
(VOCV 814.018 VOC regulation
CH)

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:

R10 Flammable.
R20 Harmful by inhalation.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

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.