



Safety Data Sheet according to REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS, 2021, published in GG 44348

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Pattex NMN Invisible Cartridge

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

1.1. Product identifier

Pattex NMN Invisible Cartridge

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

Intended use:

Assembly adhesive, dispersion

1.3. Details of the supplier of the safety data sheet

Henkel South Africa (PTY) Ltd.

Cnr Bosworth & Potgieter St

1449 Alberton

South Africa

Phone: +27 (116172400)

ua-productsafety_za@henkel.com

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

1.4. Emergency telephone number

0800 202 202

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

Label elements (GHS):

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

Supplemental information

Contains: 1,2-Benzisothiazol-3(2H)-one; Isothiazolinone mixture 3:1 (CIT/MIT) May produce an allergic reaction.

Precautionary statement:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P262 Do not get in eyes, on skin, or on clothing.

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

Declaration of the ingredients:

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|---|----------------------------|---------------|--|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 220-120-9 | 50- < 500 PPM | Aquatic Acute 1 H400 Aquatic Chronic 2 H411 Acute Tox. 4; Oral H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 Acute Tox. 2; Inhalation H330 |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | | 1- < 15 PPM | Acute Tox. 2; Inhalation H330 Aquatic Chronic 1 H410 Acute Tox. 3; Oral H301 Acute Tox. 2; Dermal H310 Eye Dam. 1 H318 Skin Sens. 1A H317 Aquatic Acute 1 H400 Skin Corr. 1C H314 |

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:

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.

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 self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

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

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 in a cool, frost-free place.

Avoid strictly temperatures below + 5 °C and above + 50 °C.

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

7.3. Specific end use(s)

Assembly adhesive, dispersion

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
South Africa

None

Occupational Exposure Limits

Valid for
Kenya

None

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|--------------------|------------------|-----|------------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (freshwater) | | 0,00403 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (marine water) | | 0,000403 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | aqua (intermittent releases) | | 0,0011 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sewage treatment plant (STP) | | 1,03 mg/l | | | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sediment (freshwater) | | | | 0,0499 mg/kg | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | sediment (marine water) | | | | 0,00499 mg/kg | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Soil | | | | 3 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (freshwater) | | 0,00339 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (marine water) | | 0,00339 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sewage treatment plant (STP) | | 0,23 mg/l | | | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sediment (freshwater) | | | | 0,027 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | sediment (marine water) | | | | 0,027 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | Soil | | | | 0,01 mg/kg | | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2- methyl-, mixt. with 2-methyl-3(2H)- isothiazolone 55965-84-9 | aqua (intermittent releases) | | 0,00339 mg/l | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|--------------------|-------------------|--|---------------|------------------------|---------|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Workers | inhalation | Long term exposure - systemic effects | | 6,81 mg/m ³ | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Workers | dermal | Long term exposure - systemic effects | | 0,966 mg/kg | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | General population | inhalation | Long term exposure - systemic effects | | 1,2 mg/m ³ | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | General population | dermal | Long term exposure - systemic effects | | 0,345 mg/kg | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Workers | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Workers | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | inhalation | Long term exposure - local effects | | 0,02 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | inhalation | Acute/short term exposure - local effects | | 0,04 mg/m ³ | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | oral | Long term exposure - systemic effects | | 0,09 mg/kg | |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9 | General population | oral | Acute/short term exposure - systemic effects | | 0,11 mg/kg | |

Biological Exposure Indices:

None

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

Ensure adequate ventilation.

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:

Goggles which can be tightly sealed.

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

Appearance

paste

solid

white

Odor

specific

Odour threshold

No data available / Not applicable

pH

7,2 - 9,0

| | |
|--|---|
| (20 °C (68 °F); Conc.: 100 %) | |
| pH | Not applicable |
| Melting point | 0 °C (32 °F) |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 100 °C (212 °F) |
| 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 | 23 mbar |
| (20 °C (68 °F)) | |
| Relative vapour density: | Not applicable, Product is a solid. |
| Density | 1,01 - 1,04 g/cm ³ |
| (20 °C (68 °F)) | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Partially miscible |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| 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

None known.

SECTION 11: Toxicological information
General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1. Information on toxicological effects**Acute oral toxicity:**

No data available.

Acute dermal toxicity:

No data available.

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

Respiratory or skin sensitization:

No data available.

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):

No data available.

Toxicity (Daphnia):

No data available.

Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

No data available.

Toxicity to microorganisms

No data available.

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 |
|---|---|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isothiazolinone mixture 3:1 (CIT/MIT) 55965-84-9 | 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

080410

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

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

14.4. Packing group

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

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 | not applicable |
|-----|----------------|

| | |
|------|----------------|
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

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

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 1005/2009): | 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:

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 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.

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