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

- **Product identifier**
  - **Trade name:** WYNN’S TYRE FIX 235g
  - **Article number:** 469
- **Application of the substance / the preparation** Re inflates and seals a puncture
- **Details of the supplier of the safety data sheet**
  - **Further information obtainable from:**
    WYNN OIL SOUTH AFRICA (PTY) LTD
    22 Mopedi Road,
    Sebenza, Edenvale
    1609
    Gauteng
    South Africa
    Tel: 2711 609 3708
    Fax: 2711 609 2218
    technical@wynns.co.za
  - **Emergency telephone number:** Tel: 2711 609 3708

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>Chemicals</th>
<th>Description</th>
<th>Classification</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-85-7</td>
<td>Petroleum gases, liquefied</td>
<td>F+ R12 Carc. Cat. 1, Muta. Cat. 2</td>
<td>H220; H224; H280</td>
<td>20-40%</td>
</tr>
<tr>
<td>107-21-1</td>
<td>ethanediol</td>
<td>Xn R22</td>
<td></td>
<td>5-20%</td>
</tr>
<tr>
<td>34149-92-3</td>
<td>Polyvinyl Acetate Chloride</td>
<td>Xi R38</td>
<td>H315</td>
<td>5-20%</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
    - **Xn:** Harmful
    - **R22:** Harmful if swallowed.
    - **Xi:** Irritant
    - **R38:** Irritating to skin.
    - **F+:** Extremely flammable
    - **R12:** Extremely flammable.

- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.
Trade name: WYNNS TYRE FIX 235g

- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- Label elements

- Labelling according to EU guidelines:
    Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- Risk phrases:
  12 Extremely flammable.
  22 Harmful if swallowed.
  38 Irritating to skin.

- Safety phrases:
  2 Keep out of the reach of children.

- Special labelling of certain preparations:
  Safety data sheet available for professional user on request.
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

4 First aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

5 Firefighting measures

- Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling: No special measures required.
Trade name: WYNN’S TYRE FIX 235g

- Information about fire - and explosion protection:
  Do not spray onto a naked flame or any incandescent material.
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric
  lights. Do not pierce or burn, even after use.
- Storage:
  - Requirements to be met by storerooms and receptacles:
    Observe official regulations on storing packagings with pressurized containers.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

<table>
<thead>
<tr>
<th>Ingredients with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-85-7 Petroleum gases, liquefied</td>
</tr>
<tr>
<td>OEL (South Africa) Short-term value: 2250 mg/m³, 1250 ppm</td>
</tr>
<tr>
<td>Long-term value: 1800 mg/m³, 1000 ppm</td>
</tr>
<tr>
<td>107-21-1 ethanediol</td>
</tr>
<tr>
<td>OEL (South Africa) Short-term value: 40 ppm</td>
</tr>
<tr>
<td>Long-term value: 20 ppm</td>
</tr>
<tr>
<td>IOELV (EU) Short-term value: 104 mg/m³, 40 ppm</td>
</tr>
<tr>
<td>Long-term value: 52 mg/m³, 20 ppm</td>
</tr>
<tr>
<td>Skin</td>
</tr>
</tbody>
</table>

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not required.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
    chemical mixture.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
    varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of
    the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
    observed.
  - Eye protection: Not required.

9 Physical and chemical properties

- General Information
  - Appearance:
    Form: Aerosol
    Colour: As per product specification
  - Odour: Characteristic
Trade name: WYNN’S TYRE FIX 235g

- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 197 °C
- Flash point: 60 °C
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: 410 °C
- Decomposition temperature: Not determined.
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: 3.2 Vol %
  - Upper: 53.0 Vol %
- Vapour pressure at 20 °C: 0.1 hPa
- Density: Not determined.
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.0 %
  - VOC (EC): 0.00 %
- Other information: No further relevant information available.

10 Stability and reactivity
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information
- Acute toxicity:
- Primary irritant effect:
  - on the skin: Irritant
  - on the eye: Irritant
- Sensitization: No sensitizing effects known.
Trade name: WYNN’S TYRE FIX 235g

Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Additional ecological information:
- General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- Waste treatment methods
- Recommendation: Smaller quantities can be disposed of with household waste.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
- ADR, IMDG, IATA UN1950

- UN proper shipping name
  - ADR 1950 AEROSOLS
  - IMDG AEROSOLS
  - IATA AEROSOLS, flammable

- Transport hazard class(es)
- ADR

  - Class 2 5F Gases.
  - Label 2.1

- IMDG, IATA

  - Class 2.1
Trade name: WYNN’S TYRE FIX 235g

### Label

- **Packing group**: -
- **ADR, IMDG, IATA**: Void

### Environmental hazards:

- **Marine pollutant**: No
- **Special precautions for user**: Warning: Gases.
- **Danger code (Kemler)**: -
- **EMS Number**: F-D,S-U

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- **Transport/Additional information**:
  - **ADR**: Not applicable.
  - **Limited quantities (LQ)**: 1L
  - **Transport category**: 2
  - **Tunnel restriction code**: D

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### 15 Regulatory information

- **Labelling according to EU guidelines**:
  
  Observe the general safety regulations when handling chemicals.
  
  The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Risk phrases**:
  12 Extremely flammable.
  22 Harmful if swallowed.
  38 Irritating to skin.

- **Safety phrases**:
  2 Keep out of the reach of children.

- **Special labelling of certain preparations**:
  
  Safety data sheet available for professional user on request.
  
  Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

- **National regulations**:

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK</td>
<td>10.0</td>
</tr>
</tbody>
</table>

---

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**:
  H220 Extremely flammable gas.
  H224 Extremely flammable liquid and vapour.
  H280 Contains gas under pressure; may explode if heated.
  H315 Causes skin irritation.
Trade name: WYNN’S TYRE FIX 235g

R12  Extremely flammable.
R22  Harmful if swallowed.
R38  Irritating to skin.

Department issuing MSDS:
WYNN OIL SOUTH AFRICA (PTY) LTD
22 Mopedi Road
Sebenza, Edenvale
1609
Gauteng
South Africa
Tel: 2711 609 3708
Fax: 2711 609 2218
technical@wynns.co.za
Contact: 2711 609 3708
* Data compared to the previous version altered.