1 Identification

- Product identifier
- Trade name: Fix-A-Flat® Tire Sealant/Inflator
- Product code: S60266, S60269, S60410, S60420, S60430
- Recommended use and restriction on use
- Recommended use: Sealant
- Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
  ITW Global Tire Repair, Inc.
  125 Venture Drive, Suite 210, San Luis Obispo, CA 93401
  Tel (805) 489-0490
- Emergency telephone number:
  ChemTel Inc.
  (800)255-3924 (North America)
  +1 (813)248-0585 (International)

2 Hazard(s) identification

- Classification of the substance or mixture
  Press. Gas H280 Contains gas under pressure; may explode if heated.

- Label elements
- GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:
  ![GHS04]

- Signal word: Warning
- Hazard statements:
  H280 Contains gas under pressure; may explode if heated.
- Precautionary statements:
  P410+P403 Protect from sunlight. Store in a well-ventilated place.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>29118-24-9</td>
<td>(1E)-1,3,3-Tetrafluoro-1-propene</td>
<td>Press. Gas, H280 Simple Asphyxiant 20-40%</td>
</tr>
<tr>
<td>56-81-5</td>
<td>glycerol</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>9004-34-6</td>
<td>cellulose</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

(Cont’d. on page 2)
Safety Data Sheet
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Revision: January 05, 2018

Trade name: Fix-A-Flat® Tire Sealant/Inflator

· Additional information:
  For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
  For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

· Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact:
    Immediately remove any clothing soiled by the product.
    Immediately wash with water and soap and rinse thoroughly.
    If skin irritation continues, consult a doctor.
  · After eye contact:
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  · After swallowing:
    Unlikely route of exposure.
    Do not induce vomiting; immediately call for medical help.
  · Most important symptoms and effects, both acute and delayed:
    Gastric or intestinal disorders when ingested.
  · Indication of any immediate medical attention and special treatment needed:
    No relevant information available.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:
  CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
· For safety reasons unsuitable extinguishing agents: None.
· Special hazards arising from the substance or mixture
  Danger of receptacles bursting because of high vapor pressure if heated.
· Advice for firefighters
· Protective equipment:
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
· Additional information: Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Use personal protective equipment as required.
  Ensure adequate ventilation.
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
· Environmental precautions No special measures required.
· Methods and material for containment and cleaning up
  Allow to solidify. Pick up mechanically.
  Send for recovery or disposal in suitable receptacles.

(Cont'd. of page 1)

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Trade name: Fix-A-Flat® Tire Sealant/Inflator

(Cont'd. of page 2)

7 Handling and storage

- Handling
  - Precautions for safe handling:
    Keep out of reach of children.
    Use only in well ventilated areas.
    Handle with care.
    Avoid contact with the eyes and skin.
  - Information about protection against explosions and fires:
    Danger of receptacles bursting because of high vapor pressure if heated.

- Conditions for safe storage, including any incompatibilities
  - 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: Store away from foodstuffs.
  - Further information about storage conditions:
    Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

- Control parameters

  - Components with limit values that require monitoring at the workplace:

    | Component        | Long-term value  |
    |------------------|------------------|
    |                  | 56-81-5 glycerol |
    | PEL (USA)        | 15* 5** mg/m³    |
    |                  | mist,**total dust respirable fraction |
    | TLV (USA)        | TLV withdrawn-insufficient data human occup. exp. |
    | EL (Canada)      | 10* 3** mg/m³    |
    |                  | *mist, **mist, respirable |
    | EV (Canada)      | 10 mg/m³         |
    | LMPE (Mexico)    | 10 mg/m³         |

    | Component        | Long-term value  |
    |------------------|------------------|
    |                  | 9004-34-6 cellulose |
    | PEL (USA)        | 15* 5** mg/m³    |
    |                  | *total dust, **respirable fraction |
    | REL (USA)        | 10* 5** mg/m³    |
    |                  | *total dust, **respirable fraction |
    | TLV (USA)        | 10 mg/m³         |
    | EL (Canada)      | 10* 3** mg/m³    |
    |                  | *total dust, **respirable fraction |
    | EV (Canada)      | 10 mg/m³         |

(Cont'd. on page 4)
Trade name: Fix-A-Flat® Tire Sealant/Inflator

<table>
<thead>
<tr>
<th>Trade name</th>
<th>paper fibre, total dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMPE (Mexico)</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

- **Exposure controls**
  - **General protective and hygienic measures:**
    The usual precautionary measures for handling chemicals should be followed.
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.
    Avoid breathing vapors.
  - **Engineering controls:** No relevant information available.
  - **Breathing equipment:**
    Not required under normal conditions of use.
    Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
  - **Protection of hands:**
    - **Protective gloves**
      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      Material: Nitrile
      Thickness: ≥4 mil
      Breakthrough time: 2 hours
  - **Eye protection:**
    - **Safety glasses**
  - **Body protection:**
    Not required under normal conditions of use.
    Protection may be required for spills.

**Limitation and supervision of exposure into the environment**
No relevant information available.

**Risk management measures** No relevant information available.

---

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **Appearance:**
    - **Form:** Aerosol
    - **Color:** According to product specification
    - **Odor:** Characteristic
    - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.
  - **Melting point/Melting range:** Not applicable, as aerosol.
Trade name: Fix-A-Flat® Tire Sealant/Inflator

• Boiling point/Boiling range: Not applicable, as aerosol.
• Flash point: Not applicable, as aerosol.
• Flammability (solid, gaseous): Not applicable.
• Auto-ignition temperature: Not determined.
• Decomposition temperature: Not determined.
• Danger of explosion: Not determined.

• Explosion limits
  Lower: Not determined.
  Upper: Not determined.
• Oxidizing properties: Non-oxidizing.
• Vapor pressure: Not determined.

• Density:
  Relative density: Not determined.
  Vapor density: Not determined.
  Evaporation rate: Not applicable.

• Solubility in / Miscibility with
  Water: Partly miscible.

• Partition coefficient (n-octanol/water): Not determined.

• Viscosity
  Dynamic: Not determined.
  Kinematic: Not determined.
• Other information No relevant information available.

10 Stability and reactivity

• Reactivity: No relevant information available.
• Chemical stability:
  • Thermal decomposition / conditions to be avoided:
    No decomposition if used and stored according to specifications.
    Danger of receptacles bursting because of high vapor pressure if heated.
  • Possibility of hazardous reactions
    Reacts with strong oxidizing agents.
    Toxic fumes may be released if heated above the decomposition point.
  • Conditions to avoid Avoid acids.
  • Incompatible materials Oxidizers
  • Hazardous decomposition products
    Under fire conditions only:
    Carbon monoxide and carbon dioxide
    Danger of toxic fluorine based pyrolysis products.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - LD/LC50 values that are relevant for classification: None.
  - Primary irritant effect:
    - On the skin: Based on available data, the classification criteria are not met.
    - On the eye: Based on available data, the classification criteria are not met.
  - Sensitization: Based on available data, the classification criteria are not met.
  - Subacute to chronic toxicity: No relevant information available.

- IARC (International Agency for Research on Cancer):
  None of the ingredients are listed.

- NTP (National Toxicology Program):
  None of the ingredients are listed.

- OSHA-Ca (Occupational Safety & Health Administration):
  None of the ingredients are listed.

- Probable route(s) of exposure:
  - Eye contact.
  - Skin contact.
  - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
  - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure: Based on available data, the classification criteria are not met.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No relevant information available.
  - Persistence and degradability: No relevant information available.
  - Bioaccumulative potential: No relevant information available.
  - Mobility in soil: No relevant information available.
  - Additional ecological information
  - General notes:
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No relevant information available.

13 Disposal considerations

- Waste treatment methods
Safety Data Sheet
acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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- Recommendation:
  Contact waste processors for recycling information.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
  - Recommendation: Disposal must be made according to official regulations.

### 14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, ADR, IMDG, IATA</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>DOT</td>
<td>Aerosols</td>
</tr>
<tr>
<td></td>
<td>ADR, IMDG</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td></td>
<td>IATA</td>
<td>Aerosols, non-flammable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
</tr>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
<tr>
<td>ADR</td>
</tr>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
<tr>
<td>IMDG, IATA</td>
</tr>
<tr>
<td>Class</td>
</tr>
<tr>
<td>Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packing group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosols are not assigned a packing group.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMS Number:</td>
</tr>
</tbody>
</table>

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  United States (USA)
  SARA

  - Section 302 (extremely hazardous substances):
    None of the ingredients are listed.

  - Section 355 (extremely hazardous substances):
    None of the ingredients are listed.

  - Section 313 (Specific toxic chemical listings):
    None of the ingredients are listed.

  - TSCA (Toxic Substances Control Act)
    All ingredients are listed.

  - Proposition 65 (California)

    - Chemicals known to cause cancer:
      None of the ingredients are listed.

    - Chemicals known to cause reproductive toxicity for females:

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Safety Data Sheet
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Trade name: Fix-A-Flat® Tire Sealant/Inflator

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- **Chemicals known to cause reproductive toxicity for males:**
  None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**
  None of the ingredients are listed.

- **EPA (Environmental Protection Agency):**
  None of the ingredients are listed.

- **IARC (International Agency for Research on Cancer):**
  None of the ingredients are listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health):**
  None of the ingredients are listed.

- **Canadian Domestic Substances List (DSL):**
  All ingredients are listed.

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.

- **Date of preparation / last revision** January 05, 2018 / -

- **Abbreviations and acronyms:**
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bio-accumulative, Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety and Health
  - OSHA: Occupational Safety & Health Administration
  - Press. Gas: Gases under pressure – Compressed gas
  - Press. Gas: Gases under pressure – Liquefied gas

- **Sources**
  - Website, European Chemicals Agency (echa.europa.eu)
  - Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
  - Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
  - Safety Data Sheets, Individual Manufacturers
  - SDS Prepared by:
    ChemTel Inc.
    1305 North Florida Avenue
    Tampa, Florida USA 33602-2902
    Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
    Website: www.chemtelinc.com