SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : 9473 Speedy Charge R-134a Refrigerant with Additives
CAS No : 811-97-2
Product code : 9473

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

Use of the substance/mixture : Speedy Charge is used as an R-134a Refrigerant charge and Leak Stop in R-134a refrigeration systems.
Use of the substance/mixture : Refrigerant gas

1.3. Details of the supplier of the safety data sheet

Tire Seal, Inc.
3574 Corona Street
Lake Worth, Florida 33461 - USA
T 561-582-2245 - F 561-582-1499
www.supercool.ac

1.4. Emergency telephone number

Emergency number : USA PHONE: 1-800-373-7542, INT'L: 1-484-951-2432
DGA/AAG ENVIRONMENTAL CONTRACT: DGA4000-048

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. Label elements

GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) :
H280 - Contains gas under pressure; may explode if heated
H281 - Contains refrigerated gas; may cause cryogenic burns or injury
H332 - Harmful if inhaled
H402 - Harmful to aquatic life

Precautionary statements (GHS-US) :
P102 - Keep out of reach of children
P103 - Read label before use
P233 - Keep container tightly closed
P251 - Pressurized container: Do not pierce or burn, even after use
P262 - Do not get in eyes, on skin, or on clothing
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P403+P235 - Store in a well-ventilated place. Keep cool
P412 - Do not expose to temperatures exceeding 50 °C/ 122 °F

2.3. Other hazards

Other hazards not contributing to the classification : Contains gas under pressure; may burst if heated.

2.4. Unknown acute toxicity (GHS US)

Not applicable
SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture
Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: Content under pressure. "Frostbite-like" effects may occur if the liquid or escaping vapors contact the eyes or skin. Gross inhalation over exposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death. Vomiting: prevent asphyxia/aspiration pneumonia.

First-aid measures after inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

First-aid measures after skin contact: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes, and launder before reuse. Use approved skin lotions or creams to replace lost skin oils. Treat for frostbite if necessary by gently warming affected area.

First-aid measures after eye contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

First-aid measures after ingestion: DO NOT INDUCE VOMITING. Give nothing by mouth. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: Central nervous system depression. Dizziness. Mental confusion.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water fog, carbon dioxide, foam, dry chemical. Use water spray to keep containers cool that are exposed to heat or flames.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur. Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

6.1.1. For non-emergency personnel
Protective equipment: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

6.1.2. For emergency responders
No additional information available

6.2. Environmental precautions
No additional information available

6.3. Methods and material for containment and cleaning up
For containment: Increase area ventilation. Do not puncture or incinerate container. Contents under pressure.

6.4. Reference to other sections
No additional information available
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: CAUTION: COMPRESSED GAS. Do not puncture, incinerate or store above 120°F. Do not store in passenger compartment of automobile. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Do not store above 120 F.
Storage temperature: < 49 °C Do not store in passenger compartment of automobiles.
Storage area: Store in a dry area. Store in a cool area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls: Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Showers. Eyewash stations.
Hand protection: Insulated gloves.
Eye protection: Wear safety glasses or goggles to protect against exposure.
Skin and body protection: Avoid skin contact. Wear protective clothing and gloves.
Respiratory protection: Use in a well ventilated area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Clear, colorless liquid or gas at ambient temperatures.
Color: Mixture contains one or more component(s) which have the following colour(s):
   Colourless On exposure to light: grey-brown No data available on colour Colorless
Odor: Ether-like odour
Odor threshold: No data available
pH: No data available
Melting point: No data available
Freezing point: No data available
Boiling point: -26.5 °C
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Vapor pressure: No data available
Relative density: No data available
Relative vapor density at 20 °C: No data available
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

9.2. Other information

Gas group: Liquefied gas
### SECTION 10: Stability and reactivity

**10.1. Reactivity**

- No additional information available

**10.2. Chemical stability**

- Stable under normal conditions. Stable under normal temperatures and pressures.

**10.3. Possibility of hazardous reactions**

- Hazardous Polymerization: WILL NOT OCCUR.

**10.4. Conditions to avoid**

- Do not expose to heat or store at temperatures above 120 F.

**10.5. Incompatible materials**

- No additional information available

**10.6. Hazardous decomposition products**

- Carbon monoxide. Carbon Dioxide. This material can be decomposed by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>Central nervous system depression. Dizziness. Mental confusion.</td>
</tr>
</tbody>
</table>

(Not expected to cause cancer. This oil meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.)

### SECTION 12: Ecological information

**12.1. Toxicity**

- No additional information available

**12.2. Persistence and degradability**

- No additional information available

**12.3. Bioaccumulative potential**

- No additional information available

**12.4. Mobility in soil**

- No additional information available

**12.5. Other adverse effects**

- Effect on the global warming: No known ecological damage caused by this product.

- Other information: Avoid release to the environment.

### SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

- Waste disposal recommendations: Disposal should be made in accordance with federal, state and local regulations.
SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Proper Shipping Name (DOT) : 1,1,1,2-Tetrafluorethane
Transport hazard class(es) (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT) : 2.2 - Non-flammable gas

Other information : No supplementary information available.

TDG
Transport document description : 3159 1,1,1,2-Tetrafluorothane, 2.2
UN-No. (TDG) : 3159
TDG Proper Shipping Name : 1,1,1,2-Tetrafluorothane
TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.

Transport by sea
No additional information available

Air transport
No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

9473 Speedy Charge R-134a Refrigerant with Additives (811-97-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA
9473 Speedy Charge R-134a Refrigerant with Additives (811-97-2)
Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification

| Class A - Compressed Gas |
| Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

9473 Speedy Charge R-134a Refrigerant with Additives (811-97-2)

| U.S. - California - Proposition 65 - Carcinogens List | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | Yes |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |

SECTION 16: Other information

Revision date : 08/18/2015
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

SDS US (GHS HazCom 2012)

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