1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Name of product
Leak detection spray
Code-Nr. Parker TS01

Manufacturer/distributor
Parker Hannifin GmbH O-Ring Division Europe
Stuifenstrasse 55, D-74385 Pleidelsheim, Germany
Phone +49 (0) 7144 206-0
E-Mail oring-europe@parker.com
Internet www.parker.com/oring-europe

Advice
O-Ring Division Europe
Phone +49 (0) 7144 206-0

Emergency advice
Informationszentrale gegen Vergiftungen - Bonn
Phone +49 (0) 228 - 19 240

Recommended intended purpose(s)
Technical aerosols

2. HAZARDS IDENTIFICATION

Special hazards information for humans and environment
No dangerous preparation according to directive 1999/45/CE.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Leak detector spray based on an aqueous surfactant solution with dinitrogen oxide propellant.

Hazardous ingredients

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>10024-97-2</td>
<td>233-032-0</td>
<td>Dinitrogen oxide</td>
<td>&lt;= 2,5</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General information
no

In case of inhalation
In the event of symptoms refer for medical treatment.

In case of skin contact
In case of contact with skin wash off with water.

In case of eye contact
In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion
If swallowed seek medical advice immediately and show the doctor packing or label.

Treatment (Advice to doctor)
Treat symptoms.
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Product does not burn, fire-extinguishing activities according to surrounding.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
Bursting hazard
Fire gas of organic material has to be classed invariably as respiratory poison.

Special protective equipment for fire-fighters
Use breathing apparatus with independent air supply.

Additional information
Cool endangered containers with water spray jet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Ensure adequate ventilation.

Methods for cleaning up
Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion
The product is not combustible.

Requirements for storage rooms and vessels
Keep in closed original container.
The local authorities’ regulations relating to the storage of compressed gas packagings (aerosol cans) must be adhered to.

Further information on storage conditions
Protect from heat and direct solar radiation.
Storage temperature may not exceed 50°C (=122°F).

Information on storage stability
At storing temperature below 40°C unlimited stability.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional advice on system design
no

Ingredients with occupational exposure limits to be monitored

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m3]</th>
<th>[ppm]</th>
<th>Spitzenb.</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>10024-97-2</td>
<td>Nitrous oxide</td>
<td>8 hours</td>
<td>183</td>
<td>100</td>
<td>EH40/2005</td>
<td></td>
</tr>
</tbody>
</table>

Hand protection
It is recommended to check together with the protection glove manufacturer the gloves’ resistance to chemicals depending on the specific conditions of use.
Glove materials data [type, thickness, breakthrough time/duration of use, permeation rate]: Nitrile, 0.4mm, 60 min, 480min. e.g. “Camatril Profi” made by KCL  email: Vertrieb@kcl.de
Chemical resistant protective gloves must be chosen depending on the concentration and quantity of dangerous substances and specific workplace conditions.

Eye protection
safety goggles

Skin protection
Protective clothing
General protective measures
Avoid contact with eyes and skin
Do not inhale aerosols

Hygiene measures
At work do not eat, drink and smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>aerosol</td>
<td>colourless</td>
<td>hardly noticeable</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Value</th>
<th>Temperature at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value in delivery state</td>
<td>6 - 7,5</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>6000-6500 hPa</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>0,99-1,01 g/cm³</td>
<td>20 °C</td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td>multimiscible</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent concentration</td>
<td>0,04 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Conditions to avoid
Keep away from heat.
Heating above 50°C

Hazardous decomposition products
fluoric containing products

Thermal decomposition

Remark
No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritability eye</td>
<td>low irritant - no labeling duty</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Experiences made from practice
To our experience and information available, correct handling and use of this product doesn't have any health damaging effects.

Additional information
No toxical dates available.
12. ECOLOGICAL INFORMATION

Behaviour in sewage plant
When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological information

<table>
<thead>
<tr>
<th>Value</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOX</td>
<td>Product can contain organically bound halogen and contribute to the adsorbable organic halogen value.</td>
<td></td>
</tr>
</tbody>
</table>

Contains following heavy metals and compounds of the 76/464/EWG
no

General regulation
Ecological dates are not available.

13. DISPOSAL CONSIDERATIONS

Waste code No. Name of waste
15 01 10* packaging containing residues of or contaminated by dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product
Material recycling possible. Remove in accordance with local official regulations.

Recommendations for packaging
To be disposed of adhering to the local authorities’ regulations.

General information
Empty can for correct disposal.

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID
UN 1950 AEROSOLS, 2.2, (E), Classification code: 5A
Transport as “Limited Quantity (LQ)” according to ADR chapter 3.4

Marine transport IMDG
UN 1950 AEROSOLS, 2.2

Air transport ICAO/IATA-DGR
UN 1950 Aerosols, non-flammable, 2.2

Transport/further information
24h EMERGENCY CONTACT (TRANSPORT) +49(0)178 433 7434 (Consultank GmbH)

15. REGULATORY INFORMATION

Remarks for classification
The product does not require a hazard warning label in accordance with EC directives.

S-phrases
23.4 Do not breathe spray.
25 Avoid contact with eyes.
51 Use only in well-ventilated areas.

Special labelling for certain preparations
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
16. OTHER INFORMATION

Recommendend uses and restrictions
National and local regulations concerning chemicals shall be observed.

Further information
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.