

SAFETY DATA SHEET

PRODUCT NAME: GAS SPRING | GAS STRUTS

Recommended Use | Motion control / assist
Supplier | Gas Strut Australia Pty Ltd
Address | 91 Market Street | Mudgee | NSW | 2850
Telephone | 1300 807 101
Emergency Telephone | 0425 251535

HAZARDS IDENTIFICATION

Hydraulic Oil Shell Tellus S2 M46
Compressed Gas Nitrogen
Elastomers Nitrile O-Ring

2.1 | PHYSICAL DATA

2.1.1 | OIL

2.1.2 | GAS

Appearance | Compressed Gas. Colourless Gas
Odour | No odour warning properties

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2.1.3 | ELASTOMERS

Appearance | Black Rubber

Odour | Mild aromatic odour

Appearance | Amber. Liquid at room temperature

Odour | Slight hydrocarbon

2.2 | POSSIBLE DANGERS

2.2.1 | OIL

General Information | Not Classified as toxic chemical

Substance according to Taiwan Toxic Chemical

Substances (TCS)

INHALATION

No treatment necessary under normal conditions of Use | If symptoms persist, obtain medical advice.

SKIN CONTACT

Remove contaminated clothing. Flush exposed area with water and follow by washing with soap.

EYE CONTACT

Flush eye with water. If persistent irritation occurs, obtain medical advice.

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INGESTED

No treatment is necessary unless large quantities are swallowed, however seek medical advice.

GENERAL INFORMATION

Contains gas under pressure | may explode if heated

INHALATION

Remove to fresh air. If breathing has stopped or is laboured, give assisted. Supplemental oxygen if required. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. In case of shortness of breath, give oxygen.

SKIN CONTACT

Not applicable

EYE CONTACT

Not applicable

INGESTION

Ingestion is considered a potential route of exposure.

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GENERAL INFORMATION

No known effects of overexposure. Degradation by chemicals, ageing, heat or fire may produce a toxic and / or corrosive residue.

INHALATION

None under normal condition of use. Inhalation of fumes released at high temperature can be irritating to the lungs and fatal.

SKIN CONTACT

No known effects under normal conditions of use.

EYE CONTACT

No known effects under normal conditions of use.

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INGESTION

No known effects under normal conditions of use

NFPA Hazard codes HMIS Hazard codes Rating system

Health 1 Health 0 0= Minimum Hazard

1 = Slight Hazard

2 = Moderate Hazard

3= Serious Hazard

4= Severe Hazard

Flammability 0 Flammability 0

Instability 0 Reactivity 0

3 | HAZARDS

Contents under high pressure. Do not open or heat up.

4 | FIRST AID

No necessary under normal condition of use.

Additionally, the nitrogen is an inert gas, does not burn or explode.

In case of accidental release of product contents see Section 2.2

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5 | FIRE AND EXPLOSION

All known extinguishing media can be used.

Exposure to hazardous combustion products may cause rupture of container and rapid release of contents which may include some oil.

Product will not self-ignite under normal condition of use.

6 | ACCIDENTAL RELEASE

6.1 OIL

Avoid contact with skin and eyes.

Uses appropriate containment to avoid environmental contamination.

Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Slippery when split. Soak up residue and dispose of properly

6.2 GAS

Ventilate the area

Do not discharge into any place where its accumulation could be dangerous.

Prevent further leakage or spillage if safe to do so.

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6.3 ELASTOMERS

No material specific actions are required.
Collect the spilled and reuse or dispose of in accordance with local authority and national regulations.

7 | HANDLING AND STORAGE

The gas struts should not be exposed to rain and store in cool, dry area.
It is recommended to keep the piston rod downwards
No foreign material such as paint or adhesive tapes should be attached to the piston rod, and the piston rod should be protected against shocks, scratches and dirt.
Do not grease or oil the piston rod.

8 | EXPOSURE

No known effects of overexposure
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9 | PHYSICAL AND CHEMICAL PROPERTIES

Details refer to Section 2

Hydraulic Oil Shell Tellus S2 M46 Flash point°C

>230

Auto Ignition °C

>320

Compress Gas Nitrogen Not Applicable

Elastomers Nitrile O-Ring >200>200

10 | STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions. Conditions to Avoid: Strong acid and oxidizing agents. Temperature higher than 200°C

11 | TOXICOLOGY INFORMATION

No known toxicology issues beyond those contained ingredients.

But in high leaking concentrations nitrogen may cause asphyxiation.

Asphyxiation may bring about unconsciousness without warning. In this case take the action as section 2.2.2.

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12 | ECOLOGICAL INFORMATION

The ecological effects of the product have not been established in the short term.

Long time exposure to corrosive and oxidizing environment may result in spillage of contained.

13 | DISPOSAL

Recover or recycle if possible

When gas springs are no longer needed, they should be disposed of in an environmentally correct manner. To accomplish this, they should be drilled open the compressed nitrogen gas released and the oil drained.

14 | TRANSPORTATION INFORMATION

Not restricted for transport

15 | REGULATORY INFORMATION

According to local regulations

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16 | OTHER INFORMATION

MSDS Version Number: 1.0

MSDS Effective Date: 21.08.2012

MSDS Prepared by: QC DEPT (HELEN LIN)

This Safety Data Sheet is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.