

Issue 1: June 2023

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product name: Rail, industrial & crane buffers

Application: A hydro pneumatic device designed and constructed to

absorb impact energy

Manufacturer: Römer Fördertechnik GmbH

Nielandstrasse 53 58300 Wetter (Ruhr)

Germany

Contact: Phone +49 2335 80290

Mail: info@roemer-foerdertechnik.de

2. COMPOSITION/INFORMATION ON INGREDIENTS

Gas: Preparation – Nitrogen (EINECS No. 231-783-9)

+ 1% SF6 (Sulphur hexafluoride – EINECS No. 219-854-2).

Oil: This material is not considered hazardous as defined by E.C.

legislation.

3. HAZARDS IDENTIFICATION

Gas: Compressed gas.

In high concentrations may cause asphyxiation.

Oil: This product is not considered hazardous, but should be

handled in accordance with good standards of industrial

hygiene and safety practices.

4. FIRST AID MEASURES

Gas: Inhalation. In large concentrations may cause asphyxiation.

Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove victim to an

uncontaminated area and keep warm and rested.

Oil: <u>Eyes.</u> Flush eyes with water for at least 15 minutes. If

irritation persists obtain medical attention.

<u>Skin.</u> Remove contaminated clothing. Wash affected area with copious amounts of soap and water. If irritation persists

obtain medical attention.

<u>Ingestion.</u> Rinse mouth out with water and give water to drink. DO NOT INDUCE VOMITING. Obtain medical attention.



5. FIRE FIGHTING MEASURES

Special hazards: Exposure to fire may cause buffer to lose gas and oil.

Issue 1: June 2023

Extinguishing media: Gas is non-flammable.

Alcohol resistant foam, Dry Chemical, Carbon Dioxide and

Water fog to cool buffer. Do not use water jets.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Gas. Evacuate the area and ensure adequate ventilation.

Oil: Wear appropriate protective clothing. Presents a significant

slip hazard. Prevent from entering drains and watercourses.

Clean up methods: Contain and cover using absorbent inert material and dispose

of in accordance with local byelaws and the Environmental

Protection Act 1990. Ventilate the area.

7. HANDLING AND STORAGE

Handling and storage: Keep buffer upright when filled with oil.

Keep at temperatures not exceeding 50°C

Handle with care and use appropriate lifting equipment for

the designated weight.

Wear appropriate protective clothing when filling the buffers

with oil.

Install and maintain in accordance with the Installation

Leaflet.

Do not stand over the buffer when removing the transport

retainer.

Do not attempt to dismantle the buffer.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Eyes: Wear chemical safety glasses if risk of splashing the oil.

Skin: Wear chemical resistant gloves and protective overalls and

gloves

Inhalation: Ensure adequate ventilation or local exhaust measures

Exposure limits: Gas: UK SF6 – LTEL:1000 ppm; STEL – 1250 ppm (EH40/2002)

Oil: LTEL: (8 hr. TWA) Mineral oil mist = 5 mg/m³

STEL (15 minute Ref) Mineral oil mist = 10 mg/m³





9. PHYSICAL AND CHEMICAL PROPERTIES

Gas: Relative Density, gas Lighter or similar to air Solubility mg/1 water No reliable data available

Issue 1: June 2023

Appearance/colour Colourless gas

Odour No odour warning properties

Oil: 2 varieties may Physical State Liquid Liquid be used Specific Gravity @15°C 0.866 0.906

Kinematic Viscosity @40°C 15 cSt 32 cSt
Flash Point (PMCC) °C >140 >190
Boiling Point Range °C >200 >250
Auto-ignition Temperature °C >320 >270
Solubility in Water Insoluble Insoluble

PH (3% Deionised) - -

10. STABILITY AND REACTIVITY

Gas: Stability and reactivity Stable under normal conditions.

Oil: Stability Stable under normal conditions.
Incompatibility Avoid contact with strong oxidising

agents

Decomposition Thermal decomposition can lead to

formation of a variety of compounds, the precise nature of which will depend on the prevailing conditions. In complete combustion will generate

smoke, CO² and hazardous gases

including CO.

11. TOXICOLOGICAL INFORMATION

Gas: No known toxicological effects from this product

Oil: <u>Ingestion</u> Expected to be of low oral toxicity.

<u>Eyes</u> Unlikely to cause more than transient irritation.

<u>Skin</u> Unlikely to cause more than transient irritation.

Prolonged contact in conditions of poor hygiene can lead to de-fatting of the skin, dermatitis etc.

Inhalation Unlikely to be hazardous under normal conditions

of use. Inhalation of mists may cause irritation to

upper respiratory tracts and lungs.

Page **4** of **5**

12. ECOLOGICAL INFORMATION

Gas: SF6 - When discharged in large quantities may contribute to the greenhouse effect

SF6 - Global warming factor -23900 (CO₂ = 1)

Oil: Mobility Spillages may penetrate the soil causing

ground contamination and eventually

water contamination.

Persistence and

De-gradability

Expected to biodegrade slowly.

Bio-accumulation effect

Contains components that have the potential to bio-

accumulate.

Aquatic toxicity Will form a floating layer on the surface that will

not dissolve to any great extent. Expected to be practically non-toxic to aquatic organisms, but has the potential to physically foul aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Gas: Avoid discharges to atmosphere

Do not discharge the gas

Oil: Place used and contaminated materials in suitable containers.

Dispose of the waste in compliance with the duty of care and Environmental Protection Act 1990 regulations. Always dispose of using a licensed waste

disposal contractor.

14. TRANSPORT INFORMATION

Buffer: Classified under UN ADR & IATA regulations as:

UN3164 ARTICLES, PRESSURIZED, PNEUMATIC OR HYDRAULIC, 2.2 Not restricted to IMDG according to Special Provisions 594 & A114.

15. REGULATORY INFORMATION

Gas: Number in annex1 of Not applicable for preparations

Dir 67/548

EC classification Not classified as dangerous preparation

EC Labelling (Symbols, R&S No EC labelling required

Phases)

Oil: Hazard data label No label required

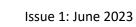
Risk & safety Phases None

E.C. Directives Dangerous Preparations Directive 2001/60/EC

91/156/EEC Framework Waste Directive

87/101/EEC waste Oil Directive





Statutory Waste Directive

Chemicals (Hazard Information and Packaging for

Supply) Regulations 2002 (CHIP4)

EH40/2002 Occupational Exposure Limits Health and Safety at Work Act 1974

Consumer Protection Act 1987

Control of Substances Hazardous to Health 1988

Environmental Protection Act 1990

Buffer: Labelling – symbols E.C. Directive

Label 2.2: non-flammable non-toxic gas

Lift Safety Directive 95/16/EC



16. OTHER INFORMATION

The information given applies when this product is sold for its stated application and no other.

If you have purchased this product for supply to a third party it is your duty to take all the necessary steps to ensure

that any person handling this product is provided with the appropriate health and safety information.

If you are an employer, it is your duty to warn your employees and others who may be affected of the hazards, that

are associated with the use of this product and any precautions that should be taken.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been

taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

The following Approved Codes of Practice are applicable:

Waste Management The Duty of Care