

Safety Data Sheet

Section 1: Chemical Product and Company Information

Identity: RM-DG, UR-DG, Didymium glass filter
Filter Identity: 'DG'
Manufactured by: Starna Scientific Ltd, 52/54 Fowler Road, Hainault, Essex IG6 3UT, UK
Phone: +44 (0)20 8501 5550
Date of preparation: 1st of June 2018
Prepared by: John P. Hammond CSci CChem FRSC; support@starna.com



Section 2: Hazards Identification

Under both EU and USA regulations, Safety Data Sheets (SDS) or Material Safety Data Sheets (MSDS), in either English or the native language of the recipient body are not required for these materials. The information provided below is additional safety data as a service to our customers. Our reference cells are a fully-enclosed, manufactured item intended as an end-use product for customers, where the shape/surface/design are more relevant for the function than the chemical composition, and therefore the (form of the) material is classified as an article under the REACH Regulation (EC) No 1907/2006 of the European Parliament. Therefore, our 'sealed-cell' references are not classified as a "hazardous chemical" and in addition are not treated as such under the U.S. OSHA Hazardous Communications Rule.

'Sealed-cell' references are considered "articles" within the meaning of 29 CFR Section 1910.1200(c), since they are formed to a specific shape or design during manufacture, have an end-use dependent upon their shape or design, and do not release or otherwise result in exposure to hazardous chemicals under normal conditions of use.

Route of Entry - Inhalation: no (inert glass matrix).

Route of Entry - Skin: no (inert glass matrix).

Route of Entry - Ingestion: no (inert glass matrix).

Health Hazard acute and chronic: Due to the complete immobilisation of the neodymium and praeosodymium oxides in the glass matrix, the only health hazard would be from a cut from the sharp edge produced if the filter is broken.

Signs and symptoms of exposure: none.

Medical Conditions aggravated by exposure: none.

Section 3: Composition

Glass Filter contains:

Neodymium and Praeosodymium oxides dispersed in a glass matrix

CAS No: 7631-86-9 (Glass)

Section 4: First Aid Measures

Under normal circumstances no measures are required for contact with the filter glass.

In the event of breakage of the filter, safely dispose of the glass pieces, and treat as below.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Wash contacted area with plenty of water. If irritation occurs, seek medical attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5: Fire Fighting Measures

In the event of the heat from a fire causing fracture or melting of the glass, the small amount of the glass involved would not contribute to the incident or add any significant risk, and the measures shown below are for reference if the material is involved in a larger conflagration.

Suitable extinguishing agents:

Carbon Dioxide, extinguishing powder, or water jet

Protective equipment: Wear full protective clothing, and a self-contained breathing apparatus.

Section 6: Accidental Release Measures

Spill: Dispose of contaminated product by usual local procedure for handling glass.

Section 7: Handling and Storage

When not being used for measurement, store closed in provided foam filled wooden box.

Protect from freezing!

Section 8:

Exposure Controls, Personal Protection

Under normal use, no protective measures are required. In the event of a breakage, the following will apply to any glass fragments.

Respiratory Protection: none required

Ventilation: none required

Protective Gloves: Puncture resistant gloves

Eye Protection: Impact prevention goggles

Other protective equipment:

Have immediate availability of eyewash.



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Section 9: Physical and Chemical Properties

Appearance:
Blue transparent glass

Boiling Point: n/a
Specific Gravity: n/a
Vapour Pressure (mm Hg): n/a
Melting Point: 545 °C
Vapour Density: n/a
Evaporation Rate: n/a
Solubility in Water: insoluble

Fire and Explosion Hazard:
Flash Point: n/a
Flammable Limits: non-flammable

Section 10: Stability and Reactivity

Stability: stable under normal operating conditions.

Conditions to avoid:
Avoid contact with sharp edges if broken.

Incompatible Materials: none

Hazardous Decomposition Products: n/a
Hazardous Polymerization: n/a

Section 11: Toxicology Information

Routes of Entry: Inhalation, Ingestion
Hazardous in case of ingestion

Carcinogenicity: none known.

Section 12: Ecological Information

Under normal conditions of use, these filter references do not constitute any risk or hazard to the environment.

Section 13: Disposal Considerations

Incineration: Never incinerate filter references.
Landfill: Never dispose of filter references as landfill.
Recycling: Filter references must be recycled. Contact local Starna dealer for information.
Starna Scientific has a recycling protocol for all types of returned 'sealed-cell' references.

Section 14: Transport Information

Land Transport:
ARD/RID and GGVS/GGVE (cross-border/domestic) -
ADR/RID-GGVS/E Class: None

Maritime Transport:
IMDG/GGVSea - IMDG/GGVSea Class: None

Air Transport:
ICAO-TI and IATA-DGR - ICAO/IATA Class: None

Section 15: Regulatory Information

Designed according to EC guidelines:
Observe the normal safety regulations when handling chemicals. This 'sealed-cell' reference is not subject to classification according to EC lists and other sources of literature known to us. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Section 16: Other Information

Other: none.

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