Material Safety Data Sheet (MSDS)

Section 1: Identification Of the Substance/Mixture And Of The Company/Undertaking	
1.1 Product Identifier	Red Perspex and Amber Perspex **Product Names**: Red 4034 Dosimeters. Amber 3042 Dosimeters. **Brand**: STERIS **REACH No**. A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Perspex dosimeters are an internationally recognised product used for the measurement of radiation dose.
1.3 Details of the supplier of the safety data sheet	Harwell Dosimeters Ltd Unit 4 Moorbrook Southmead Industrial Estate Didcot Oxfordshire OX11 7HP United Kingdom HDLorders@steris.com
1.4 Emergency Telephone number	+44 01235 819013 Available Monday – Thursday between 8am – 4pm

Section 2: Hazards Identification	
2.1 Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008, but a safety data sheet is being supplied as it contains useful information on safe handling.
2.2 Label elements	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.
2.3 Other hazards	This substance/mixture contains is believed not to contain components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological & Toxicological information The substance/mixture is believed not to contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 3: Composition/information on ingredients	
3.1 Substances	No classifiable hazardous ingredients

Section 4: First Aid Measures	
4.1 Description of First Aid Measures	Perspex Dosimeters are solid PMMA and are not hazardous under normal handling conditions. No specific first aid measures are required for the intact product. After inhalation: If fumes are inhaled if the product is heated significantly, remove exposed person to fresh air. After eye contact: Rinse out with water plenty of water if small pieces, swarf or dusts are present. Removing contact lenses if worn. After swallowing: Ingestion of Perspex is very unlikely. Drink up to 2 glasses of water & consult doctor if feeling unwell.
4.2 Most important symptoms and effects, both acute and delayed	There are no known symptoms or effects listed.
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

Section 5: Firefighting Measures	
5.1 Extinguishing media	Water spray, dry powder or carbon dioxide
5.2 Special hazards arising from the substance or mixture	Combustion will evolve toxic, irritant, and flammable vapours
5.3 Advice for firefighters	As in any fire, wear self-contained breathing apparatus.
5.4 Further information	None known

Section 6: Accidental Release Measures	
6.1 Personal precautions, protective equipment	No PPE is required to handle the dosimeter.

and emergency procedures	
6.2 Environmental precautions	None known
6.3 Methods and materials for containment and cleaning up	If the sachet is unopened, and the product is un-irradiated, put the product into its original box for use. If the product is irradiated, wipe clean if needed, and take a measurement if required. Perspex must be disposed of according to local regulations (see Section 13) rather than reused.
6.4 Reference to other sections	Not required

Section 7: Handling & Storage	
7.1 Precautions for safe handling	There are no specific measures required for intact dosimeters. Should a perspex dosimeter be broken or chipped around its edges, these can be sharp.
7.2 Conditions for safe storage, including any incompatibilities	Storage temperature below 40 °C
7.3 Specific end use(s)	Dispose of product and packaging in accordance with national regulations. The perspex dosimeter and laminate pouch can not be recycled.

Section 8: Exposure Controls / Personal Protection	
8.1 Control parameters	This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies.
8.2 Exposure controls	None under normal use conditions.

Section 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	Physical State: Solid Colour: Red or Amber Odour: Odourless Melting point: No data available Initial boiling point & boiling range: Not applicable Flammability (solid, gad): No data available Upper/ Lower flammability or explosive limits: No data available Flash Point: 10 MMA dosimeter has no flash point Autoignition temperature: 421 (MMA) Decomposition temperature: No data available pH: No data available Viscosity: Solid Water Solubility: No data available

	Partition Coefficient: No data available Vapor Pressure: No data available Density: 1.19 Relative Density: No data available Relative Vapour Density: No data available Particle Characteristics: No data available Explosive Properties: No data available Oxidising Properties: Not oxidising
9.2 Other safety information	Softening Point (°C) >100

Section 10: Stability and Reactivity	
10.1 Reactivity	None known
10.2 Chemical stability	Stable at routine temperatures
10.3 Possibility of hazardous reactions	None Known
10.4 Conditions to avoid	Avoid temperatures over 100°C as the material may soften and deform
10.5 Incompatible materials	None known
10.6 Hazardous decomposition products	None known

Section 11: Toxicological Information	
11.1 Information on toxicological effects	No Acute toxicity information is available for this product.
11.2 Additional Information	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. No toxic effects are to be expected when the product is handled in routine use.

Section 12: Ecological information	
12.1 Toxicity	The product is predicted to have low toxicity to aquatic organism.
12.2 Persistence and degradability	The product is non-biodegradable in soil.
12.3 Bio accumulative potential	The product as low potential for bioaccumulation

12.4 Mobility in soil	The product as low mobility in soil
12.5 Results of PBT and vPvB assessment	This substance/mixture contains is believed not to contain components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties	The substance/mixture is believed not to contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects	No information available

Section 13: Disposal Considerations	
13.1 Waste treatment methods	Dispose of product and packaging in accordance with national regulations. Cardboard packaging material can be recycled if required.

Section 14: Transport Information	
14.1 UN number	Not Classified as Dangerous for Transport
14.2 UN proper shipping name	Not assigned
14.3 Transport hazard class(es)	Not assigned
14.4 Packaging group	Not assigned
14.5 Environmental hazards	Non-hazardous product
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.
14.7 Maritime transport in bulk according to IMO instruments	This product is not intended to be transported by sea in bulk containers.

Section 15: Regulatory Information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2 Chemical Safety Assessment	No chemical safety assessment has been carried out

Section 16: Other Information	
Further information	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product about appropriate safety precautions. It does not represent any guarantee of the properties of the product. STERIS and its company Harwell Dosimeters Limited shall not be held liable for any damage resulting from handling or from contact with the above product. See the reverse side of Sales Orders for additional terms and conditions of sale. The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all the information in the document regarding the product remains unchanged and matches the product ordered.

Record of Amendment

Revision Number	Detail of Change	Date Changed
2	➢ Harwell Dosimeters Logo Removed ➢ Section 1.1. Brand 'Harwell Dosimeters Replaced with STERIS' ➢ Contact email address updated to HDLorders@steris.com ➢ Section 1.4 updated to reflect facility opening hours. ➢ Section 2.1 and 2.2 updated to have more detailed statements. ➢ Section 4.1 updated to reflect finished perspex product. ➢ Section 6.1 updated, outlining no PPE is required. ➢ Section 6.3 updated with updated instructions for cleaning up. ➢ Section 7.3 updated outlining product disposal/ recycling requirements. ➢ Section 9.1 updated in line with MSDS legal formatting requirements ➢ Section 2.3, 11.2, 12.5 & 12.6 ecological and toxicological statements updated. ➢ Section 14.7 added in line with MSDS legal formatting requirements ➢ Change in reviewers and approvers ➢ Removed 3 Reviewers and 4 Approvers ➢ Added 2 new Reviewers and 1 new Approver	April 2026