

SAFETY DATA SHEET

Prepared in accordance with UK REACH (SI 2019/758) and Regulation (EC) No 1907/2006 (REACH), Annex II, as amended

Product: Thermosorb-N Air Sampling Cartridges **Revision date:** 29 January 2026

Version: 1.1 **Supersedes:** 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Thermosorb-N Air Sampling Cartridges

Product number: 32010002

Product type: Sealed air-sampling cartridge (manufactured article). It contains a single proprietary sorbent material that is permanently enclosed within the cartridge and is not intended to be removed.

1.2 Relevant identified uses and uses advised against

Identified use: Active air sampling of airborne analyte(s) for subsequent laboratory analysis.

Uses advised against: Any use involving opening, cutting or extraction of the internal sorbent by the end user.

1.3 Details of the supplier of the safety data sheet

Company: Ellutia Limited

Address: Colston House, 200 Lancaster Way, Ely, Cambridgeshire, CB6 3NX, United Kingdom

Telephone: +44 (0)1353 669916

E-mail (SDS contact): info@ellutia.com

1.4 Emergency telephone number

Emergency telephone: +44 (0)1353 669916 (Ellutia office hours, Monday to Friday, 09:00–17:00 UK time). No dedicated 24-hour emergency service is operated.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the product

As supplied, the product is a sealed sampling cartridge (a manufactured article). In the form supplied and under normal, intended use it is not classified as hazardous under GB CLP (SI 2019/720) or Regulation (EC) No 1272/2008 (CLP), because the proprietary sorbent material is enclosed within the sealed cartridge and is not released.

The following classification applies to the proprietary sorbent material and is relevant only if the cartridge is broken, opened or its contents are otherwise released:

Skin Irrit. 2, H315 — Causes skin irritation.

Eye Irrit. 2, H319 — Causes serious eye irritation.

2.2 Label elements

As a sealed article, the product does not require a CLP hazard label. The information below describes the classification of the proprietary sorbent material, provided for reference:

Pictogram: GHS07 (exclamation mark)

Signal word: Warning

Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements: P264 Wash thoroughly after handling. P280 Wear protective gloves/eye protection.

P302+P352 IF ON SKIN: wash with plenty of water. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P337+P313 If eye irritation persists: get medical advice. P362+P364 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

No workplace exposure limits have been assigned to the constituents of the sorbent material. In normal use no exposure to the contents arises because they are enclosed within the sealed cartridge. The product does not meet the criteria for PBT or vPvB. No endocrine-disrupting properties have been identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The product is a sealed cartridge containing a single proprietary sorbent material. Its full composition and the specific chemical identity and CAS/EC number(s) are withheld as confidential business information (trade secret). This does not affect the hazard information disclosed in this data sheet, which is given in full.

Material	Identity / CAS / EC No.	Concentration	CLP classification
Proprietary sorbent material (sole constituent of the cartridge)	Withheld — confidential business information	100%	Skin Irrit. 2, H315; Eye Irrit. 2, H319

Disclosure of withheld identity: the specific chemical identity of the withheld material will be provided to a medical professional providing treatment in an emergency, to an occupational health or safety professional providing services to an exposed worker, and to an enforcement authority, on request (and, where appropriate, under a confidentiality agreement).

SECTION 4: FIRST-AID MEASURES

In normal use, the cartridge is sealed, and no exposure occurs. The following measures apply only if a cartridge is damaged and its contents are contacted.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If irritation persists, get medical advice.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical advice.

Inhalation: Remove the person to fresh air. Get medical attention if symptoms occur.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical advice if symptoms occur.

2. Most important symptoms/effects: Skin irritation; eye irritation.

3. Immediate medical attention: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media: None known.

Special hazards: The product contains only small quantities of reactive/combustible material within a sealed housing. In a fire, thermal decomposition may release irritating and toxic gases and vapours.

Advice for fire-fighters: Wear self-contained breathing apparatus and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: The product is a sealed article; accidental release of the contents is not expected. If a cartridge is broken, avoid generating dust and wear gloves and eye protection.

Environmental precautions: Do not allow released contents to enter drains, surface water or watercourses.

Containment and clean-up: Collect broken cartridges and any released solid and place in a suitable closed container for disposal (see Section 13).

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Handle the sealed cartridges with care to avoid breakage. Do not open, cut or attempt to remove the internal sorbent. Wash hands after handling.

Conditions for safe storage: Store in the original packaging in a dry, cool, well-ventilated place, away from strong oxidising agents and strong bases.

Specific end use(s): Air sampling for laboratory analysis.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The constituents of the proprietary sorbent material do not have assigned UK workplace exposure limits (WELs). In normal handling of the sealed cartridge no exposure to the contents occurs.

DNEL / PNEC: No information available.

8.2 Exposure controls

No specific controls are required for normal handling of the sealed article. If a cartridge is broken, wear eye protection (EN 166) and suitable chemical-resistant gloves (EN 374), ensure adequate ventilation and avoid generating dust. Follow good occupational hygiene practice; wash hands after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state / appearance: Solid sampling cartridge containing an off-white to white solid sorbent.

Odour: Odourless.

pH: Not applicable to the sealed article. The material is acidic in aqueous solution.

Melting point / boiling point / flash point: Not applicable to the article as supplied.

Flammability: Not classified as flammable.

Solubility: Partially soluble in water.

Oxidising properties: Not oxidising.

Detailed physico-chemical constants of the sorbent material are withheld together with its identity. They do not affect the hazard assessment of the sealed article.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No dangerous reactivity under normal conditions of use and storage.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Excess heat; exposure of the contents to moisture; physical damage to the cartridge.

Incompatible materials: Strong oxidising agents; strong bases.

Hazardous decomposition products: In a fire, may evolve irritating and toxic gases and vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

In normal use (sealed cartridge) no toxicological exposure occurs. The information below relates to the proprietary sorbent material, should it be released. Underlying numerical study values are withheld together with the material identity; the resulting hazard classifications are disclosed in full.

Acute toxicity: Not classified as acutely toxic (oral and dermal). Oral LD50 (rat) > 2000 mg/kg.

Skin corrosion / irritation: Causes skin irritation (Category 2).

Serious eye damage / irritation: Causes serious eye irritation (Category 2).

Respiratory or skin sensitisation: Not classified — no data indicating sensitisation.

Germ cell mutagenicity: Not classified (negative in Ames test).

Carcinogenicity: Not classified; not listed by IARC, NTP, ACGIH or OSHA.

Reproductive toxicity: Not classified — no data available.

STOT (single / repeated exposure): Not classified — no data available.

Aspiration hazard: Not applicable (solid).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: The sorbent material is harmful to aquatic organisms and may cause long-lasting effects in the aquatic environment (corresponds to Aquatic Chronic 3, H412). In normal use the sealed cartridge presents negligible environmental exposure.

Persistence and degradability: Persistence is considered unlikely; the material is not readily degradable.

Bioaccumulative potential: Low.

Mobility in soil: If released, soluble fractions of the material would be mobile in the environment.

Results of PBT and vPvB assessment: The product does not meet the criteria for PBT or vPvB.

Endocrine-disrupting properties: None identified.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of used and unused cartridges in accordance with local, regional and national regulations. Do not reuse cartridges. Waste codes are application-specific and must be assigned by the user. Spent cartridges containing only trace residues of the sorbent material are generally suitable for disposal as non-hazardous waste, but the user must confirm the classification for their circumstances.

Contaminated packaging: Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

The product, as supplied (sealed sampling cartridges containing only small quantities of the sorbent material), is not classified as dangerous goods for transport under ADR/RID (road/rail), IMDG (sea) or IATA/ICAO (air).

UN number: Not applicable.

UN proper shipping name: Not applicable.

Transport hazard class(es): Not applicable.

Packing group: Not applicable.

Environmental hazards: Not classified as a marine pollutant in the form supplied.

Regulatory status: Not regulated as dangerous goods for transport by road, rail, sea or air in the form and quantities supplied. No UN classification applies. (Both constituents are likewise not regulated for transport.)

SECTION 15: REGULATORY INFORMATION

This safety data sheet has been prepared in accordance with GB CLP (SI 2019/720), UK REACH (SI 2019/758) and Regulation (EC) No 1907/2006 (REACH), Annex II, as amended, and Regulation (EC) No 1272/2008 (CLP). Workplace use in the UK is subject to the Control of Substances Hazardous to Health (COSHH) Regulations 2002, as amended.

The specific identity of the proprietary sorbent material has been withheld as confidential business information. Where formal approval of an alternative chemical name is required for a component on a mixture safety data sheet, this is obtained under Article 24 of GB CLP / CLP; treating the product as a sealed manufactured article is an alternative basis on which this data sheet is provided.

SVHC (REACH / UK REACH Candidate List): None. Neither constituent appears on the Candidate List of Substances of Very High Concern; no SVHC is present at or above 0.1% w/w. (To be re-checked at each revision, as the list is updated periodically.)

PFAS: The product contains no per- or polyfluoroalkyl substances (PFAS); neither constituent contains fluorine.

Chemical safety assessment: A chemical safety assessment has not been conducted.

SECTION 16: OTHER INFORMATION

Full text of H-statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

Abbreviations: CLP – Classification, Labelling and Packaging; REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals; WEL – Workplace Exposure Limit; TWA – Time-Weighted Average; STEL – Short-Term Exposure Limit; PBT – Persistent, Bioaccumulative and Toxic; vPvB – very Persistent, very Bioaccumulative; CBI – Confidential Business Information; LD50 – median Lethal Dose.

Confidentiality statement

The specific chemical identity of the proprietary sorbent material has been withheld from this data sheet as confidential business information (trade secret) in accordance with applicable safety data sheet regulations. All hazard information is disclosed. The withheld identity will be provided to a treating medical professional in a medical emergency, to occupational health or safety professionals with a legitimate need, and to enforcement authorities, on request.

Prepared by: Ellutia Limited

Issue date: 29 January 2026

Disclaimer: The information in this safety data sheet is believed to be correct at the date of issue. It is provided as guidance for safe handling, use, storage, transport and disposal and does not constitute a warranty or quality specification. It relates only to the specific product designated and may not be valid if used in combination with other materials or processes.