

SAFETY DATA SHEET

Chrometra Fluorescent Lectin Derivatives

Product codes: ER-40 range | Version: 2.0 | Issue date: 30.09.2026

Section 1: Identification

1.1. Product identifier

Product name: Chrometra Fluorescent Lectin Derivatives

Product code: ER-40 range

Product description: Lectin–fluorophore conjugates supplied as dry/lyophilized research reagents.

REACH registration: Not applicable/required for the product as supplied; individual components may be exempt or below applicable tonnage thresholds

1.2. Relevant identified uses and uses advised against

Recommended use: Laboratory reagent for fluorescence-based detection of glycoconjugates in cells and tissues; research use only.

Use descriptors: PROC15 – Use as laboratory reagent; PC21 – Laboratory chemicals; SU24 – Scientific research and development.

Uses advised against: Diagnostic, therapeutic, food, cosmetic, household or direct in vivo human/veterinary use.

1.3. Details of the supplier of the safety data sheet

Company: Chrometra Scientific B.V.

Address: Industriepark 6
3300 Tienen
Belgium

Website: www.chrometra.com

Email: info@chrometra.com

C0011-SDS-LectinExM-EN 202609

1.4. Emergency telephone number

For medical emergencies, contact the Belgian Poison Centre: +32 (0)70 245 245 (24/7, Belgium). Outside Belgium, contact the applicable national poison centre. For product information, contact the supplier by email.

List of national toxicological centres:

NETHERLANDS	+31 88 755 8000 (24/7, healthcare professionals only)
FRANCE	+33 1 45 42 59 59 (24/7)
SWITZERLAND	145, international: +41 44 251 51 51 (24/7)
SPAIN	+34 91 562 04 20 (24/7)
ITALY	+39 06 3054 343 (24/7)
UNITED STATES	+1 800 222 1222 (24/7)

Section 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP), based on the available information and the intended small-scale laboratory use.

2.2. Label elements

Hazard pictograms:	None required
Signal word:	None
Hazard statements:	None required
Precautionary information:	Avoid formation and inhalation of dust. Avoid contact with eyes and skin. Wear suitable laboratory gloves and eye protection. Wash hands after handling.

2.3. Other hazards

Lectins are biologically active carbohydrate-binding proteins. Toxicological and sensitisation data for many specific lectin–dye conjugates are incomplete. Handle as a potentially bioactive laboratory reagent. The product is not intended for ingestion or injection.

The product is not expected to meet PBT or vPvB criteria. No component is known, at the concentration supplied, to have endocrine-disrupting properties under the applicable REACH criteria.

Section 3: Composition/Information on ingredients

3.2. Mixture

Component	Identifier	Typical concentration
Lectin–fluorophore conjugate	Biological macromolecule; CAS varies/not assigned	≥90% of dry solids
Non-hazardous buffer salts/stabilizers, if present	Mixture; formulation-dependent	≤10% of dry solids

Section 4: First-aid measures

4.1. Description of first-aid measures

GENERAL ADVICE: Seek medical advice if symptoms occur. If medical attention is required, provide this safety data sheet to medical personnel.

IN CASE OF INHALATION: Move to fresh air. Rinse mouth and nose with water. Obtain medical advice if symptoms occur or persist.

IN CASE OF SKIN CONTACT: Wash with soap and plenty of water. Remove contaminated clothing. Seek medical advice if irritation or an allergic response develops.

IN CASE OF EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical advice if irritation persists.

IN CASE OF INGESTION: Rinse mouth. Do not induce vomiting. Contact a physician or poison centre if unwell. Never give anything by mouth to an unconscious person.

FIRST AIDER PROTECTION: Avoid direct contact. First-aiders should use gloves, protective clothing, eye protection and respiratory protection appropriate to the exposure.

4.2. Most important symptoms and effects, both acute and delayed

No specific symptoms are known. Dust may cause mechanical irritation. Exposure may cause irritation or an allergic response in susceptible individuals. Effects of ingestion are unknown and may vary with lectin identity.

4.3. Indication of immediate medical attention and special treatment needed

Treat symptomatically. Show this SDS and the product label to medical personnel.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide, selected for the surrounding fire.

Unsuitable media: No specific restriction known.

5.2. Special hazards arising from the substance or mixture

Combustion or thermal decomposition may generate carbon oxides, nitrogen oxides, sulfur oxides and other irritating/toxic fumes, depending on conjugate composition.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and suitable protective clothing when fighting a fire. Prevent contaminated firefighting water from entering drains where practicable.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapours, mist or dust, where applicable. Trained personnel should use appropriate personal protective equipment as described in Section 8. Keep unnecessary or unprotected persons away from the affected area

6.2. Environmental precautions

Prevent the product or solutions containing the product from entering drains or being released into the environment. Ecological effects have not been determined.

6.3. Methods and materials for containment and cleaning up

Do not dry sweep. Carefully collect dry material using damp disposable absorbent or a suitable HEPA-filtered method. Absorb solutions with inert material. Place all material and cleaning waste in sealed, labelled hazardous-waste containers. Clean the area with water and suitable laboratory detergent.

6.4. Reference to other sections

See Section 8 for personal protection measures and Section 13 for disposal considerations.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handle only by trained personnel in accordance with good laboratory practice. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapours, mist or dust, where applicable. Do not eat, drink or smoke while handling the product. Wash hands thoroughly after handling. Keep the container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep tightly closed, dry and protected from light. Store at the temperature stated on the product label or technical data sheet. Avoid repeated freeze–thaw cycles after reconstitution.

Additional conditions: Research-use laboratory staining reagent only.

Incompatible materials: Strong oxidizing agents; conditions that denature proteins. Protect fluorescent conjugates from intense light.

Section 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limits have been established. Apply the lowest practicable exposure principle and prevent exposure to dust. Minimise exposure to dry protein dust.

8.2. Exposure controls

Engineering controls: Use a certified chemical fume hood, ventilated balance enclosure or equivalent local exhaust for all open handling of the dry reagent and concentrated stock.

General hygiene measures: Do not eat, drink or smoke while handling the product. Wash hands after handling. Remove contaminated PPE before leaving the work area.

Hand protection: Chemical-resistant disposable gloves (e.g., nitrile). Select glove type and breakthrough time for any solvent used during reconstitution.

Eye/face protection: Chemical splash goggles; add a face shield where splash or dust exposure is possible.

Skin/body protection: Fastened laboratory coat or protective gown and closed footwear. Use additional disposable protective clothing where contamination is possible.

Respiratory protection: Use an appropriately selected and fitted particulate respirator if engineering controls cannot fully prevent dust or aerosol exposure, in accordance with institutional and local requirements.

Environmental exposure controls: Prevent uncontrolled release to drains or the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state/form:	Solid; typically lyophilized powder or thin dry film
Colour:	Product-dependent; coloured/fluorescent
Odour:	Odourless or no characteristic odour
Melting/freezing point:	Not determined; protein conjugate may decompose
Boiling point / flammability / flash point:	Not applicable or not determined for the dry macromolecular product
Vapour pressure/density/viscosity:	Not applicable or not determined

Solubility:	Generally soluble in water or aqueous buffer; exact solubility is product-dependent
pH:	Not applicable to dry product; reconstituted pH is formulation-dependent
Auto-ignition temperature / partition coefficient / decomposition:	Not determined
Particle characteristics:	Lyophilized powder; particle-size distribution not determined

9.2. Other information

Fluorescence excitation/emission maxima and extinction characteristics depend on the attached fluorophore; consult the product technical data sheet.

Section 10: Stability and reactivity

10.1. Reactivity

No hazardous reactivity is expected under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions are known under recommended conditions of use.

10.4. Conditions to avoid

Heat, moisture, intense light and dust generation. Avoid repeated freeze–thaw cycles after reconstitution.

10.5. Incompatible materials

Strong oxidizing agents; reactive chemicals that denature or degrade proteins/dyes.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides, sulfur oxides and other decomposition products may form in a fire.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:	Not classified based on available information; product-specific data are not available.
Skin corrosion/irritation:	Not classified; dust or solution may cause irritation.
Serious eye damage/irritation:	Not classified; direct contact may cause irritation.
Respiratory/skin sensitisation:	Not classified; proteinaceous materials may cause sensitisation in susceptible persons. Data are insufficient.
Mutagenicity/carcinogenicity/reproductive toxicity:	Not classified; no product-specific data available.
STOT – single/repeated exposure:	Not classified; no product-specific data available.
Aspiration hazard:	Not applicable to the solid product.
Likely routes:	Inhalation of dust, eye/skin contact and ingestion.

11.2. Information on other hazards

No component is known to have endocrine-disrupting properties at the supplied concentration. Other toxicological effects are not known

Section 12: Ecological information

12.1. Toxicity

No product-specific aquatic toxicity data available.

12.2. Persistence and degradability

The lectin component is expected to be biodegradable as a protein; dye behaviour is product-dependent.

12.3. Bioaccumulative potential

Not determined. Bioaccumulation of the intact macromolecular conjugate is not expected, but data are unavailable.

12.4. Mobility in soil

Not determined; water-soluble conjugates may be mobile.

12.5. Results of PBT and vPvB assessment

Not expected to meet PBT or vPvB criteria, subject to formulation confirmation.

12.6. Endocrine disruption

No known endocrine-disrupting properties at the supplied concentration, subject to formulation confirmation

12.7. Other adverse effects

Avoid environmental release; fluorescent dyes may be persistent depending on structure.

Section 13: Disposal considerations

13.1. Waste treatment methods

Dispose of unused material, solutions and contaminated packaging through an approved laboratory waste route in accordance with local, regional and national requirements. Do not discharge concentrated material to drains. Waste classification must consider the solvent, buffer, biological sample and any preservative added during use. Empty containers may retain residue.

Section 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not regulated as dangerous goods under ADR/RID, IMDG or IATA, based on the assumed formulation

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not classified as a marine pollutant/environmentally hazardous substance

14.6. Special precautions for user

Keep sealed, dry, protected from light and at the labelled storage temperature

14.7. Maritime transport in bulk

Not intended for transport in bulk; not applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Prepared for supply and use in the European Union under REACH and CLP. No ingredient is known to be present above applicable thresholds as an SVHC, REACH Annex XIV substance, or restricted substance under REACH Annex XVII, subject to confirmation of the exact lectin, dye, salts and additives.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16: Other information

Version / revision information:

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Additional information:

Classification method: Expert judgement and available component information; mixture not tested as a whole.

Abbreviations: ADR: road transport; CLP: Classification, Labelling and Packaging; IATA: air transport; IMDG: maritime transport; PBT: persistent, bioaccumulative and toxic; REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals; vPvB: very persistent and very bioaccumulative.

Training advice: Users should be trained in safe laboratory handling of biologically active proteins and fluorescent reagents.

Disclaimer:

The information provided in this safety data sheet reflects the information available to Chrometra at the date of issue and is intended to support the safe handling, storage, use and disposal of the product. It does not constitute a specification or guarantee of specific product properties.

For research use only. Not intended for diagnostic or therapeutic use.

End of Safety Data Sheet