

SAFETY DATA SHEET

Chrometra Acrylink TFP

Product codes: ER-90 Range | Version: 2.0 | Issue date: 30.09.2026

Section 1: Identification

1.1. Product identifier

Product name: Chrometra Acrylink TFP

Product code: ER-90 Range

Product description: Amine-reactive, polymerizable tetrafluorophenyl (TFP) ester, supplied as a dry research chemical.

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 covalent introduction of polymerizable groups onto biomolecules and biological specimens, including expansion-microscopy workflows; 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

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 centers:

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

Classification according to Regulation (EC) No 1272/2008 (CLP): Acute Toxicity (oral) Category 4, Skin Irritation Category 2, Eye Irritation Category 2 and Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation), provisionally assigned by read-across from comparable amine-reactive activated esters. Product-specific testing is not available.

2.2. Label elements

Hazard pictograms:	
Signal word:	Warning

Hazard statements:	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary information:	P261 Avoid breathing dust. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Acrylink TFP is an amine-reactive tetrafluorophenyl activated ester. Dust and solutions may irritate skin and eyes. The reagent reacts with nucleophiles and hydrolyses in the presence of moisture. Avoid inhalation, ingestion and direct contact.

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

3.1. Substances

Component	Identifier	Typical concentration
Acrylink TFP: 2,3,5,6-tetrafluorophenyl 6-(acryloylamino)hexanoate	CAS not assigned/confirmed; $C_{15}H_{15}F_4NO_3$; M_r 333.28	>95%

The product is the TFP-ester analogue of Acryloyl-X. Exact identity, purity and any residual solvents, stabilizers or impurities must be confirmed against the manufacturing record, specification and certificate of analysis before regulatory release.

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 and keep comfortable for breathing. Obtain medical advice if respiratory irritation, coughing or other symptoms occur or persist.

IN CASE OF SKIN CONTACT: Remove contaminated clothing. Wash skin with plenty of soap and water for at least 15 minutes. If skin irritation occurs, obtain medical advice. Wash clothing before reuse.

IN CASE OF EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, obtain medical advice.

IN CASE OF INGESTION: Rinse mouth. Do not induce vomiting. Contact a poison centre or physician 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

Harmful if swallowed. Causes skin irritation and serious eye irritation. Dust may cause respiratory irritation. Toxicological data for the exact Chrometra product are incomplete.

4.3. Indication of immediate medical attention and special treatment needed

Treat symptomatically. Show this SDS and the product label to medical personnel. No specific antidote is known.

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, hydrogen fluoride and other irritating or toxic fluorinated fumes.

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 using a compatible detergent while preventing uncontrolled hydrolysis or aerosol formation.

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

<u>Storage conditions:</u>	Keep container tightly closed, dry, and protect from light. Protect from heat and moisture, and store under dry inert gas where specified.
<u>Storage temperature:</u>	Approximately -20 °C /-4°F (acceptable labelled range -5 to -30 °C/ 23° to -22°F).
<u>Additional conditions:</u>	Research-use biomolecule-modification and expansion-microscopy reagent only.
<u>Incompatible materials:</u>	Strong oxidizing agents, strong acids, strong bases, amines, alcohols, water and other nucleophiles.

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.

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; powder, crystals or thin dry film
Colour:	White to off-white or light yellow
Odour:	Odourless or no characteristic odour
Melting/freezing point:	Not determined
Boiling point / flammability / flash point:	Boiling point not determined; flammability and flash point not established for the dry solid
Vapour pressure/density/viscosity:	Not applicable or not determined

Solubility:	Soluble in organic solvents (DMSO and DMF); hydrolyses in water; other solubility is formulation-dependent
pH:	Not applicable to dry product; reconstituted pH is formulation-dependent
Auto-ignition temperature / partition coefficient / decomposition:	Not determined
Particle characteristics:	Powder or crystalline solid; particle-size distribution not determined

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

Expected to be stable when stored as labelled and protected from heat and moisture. The TFP activated ester hydrolyses on contact with water, releasing 2,3,5,6-tetrafluorophenol.

10.3. Possibility of hazardous reactions

Polymerization or exothermic reaction may occur under incompatible conditions; exact product data are unavailable.

10.4. Conditions to avoid

Heat, moisture, intense light, incompatible reagents and dust generation.

10.5. Incompatible materials

Strong oxidizing agents, strong acids, strong bases, amines, alcohols, water and other nucleophiles.

10.6. Hazardous decomposition products

Carbon oxides, nitrogen oxides, hydrogen fluoride and other irritating or toxic fluorinated decomposition products may form in a fire.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:	Acute Toxicity (oral) Category 4; harmful if swallowed (H302), based on available supplier information. Product-specific test data are not available.
Skin corrosion/irritation:	Skin Irritation Category 2; causes skin irritation (H315).
Serious eye damage/irritation:	Eye Irritation Category 2; causes serious eye irritation (H319).
Respiratory/skin sensitisation:	Not classified; product-specific sensitisation data are unavailable.
Mutagenicity/carcinogenicity/reproductive toxicity:	Not classified; no product-specific data available.
STOT – single/repeated exposure:	Single exposure: Category 3, may cause respiratory irritation (H335). Repeated exposure: not classified; no product-specific data available.
Aspiration hazard:	Not applicable to the solid product.
Likely routes:	Eye and skin contact, inhalation of dust or aerosol, and ingestion.

11.2. Information on other hazards

No component is known to have endocrine-disrupting properties at the supplied concentration, subject to confirmation of the exact formulation. 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

No product-specific degradation data are available. Hydrolysis is expected in water and may release 2,3,5,6-tetrafluorophenol; the rate, fate and environmental effects are not established for the supplied product.

12.3. Bioaccumulative potential

Not determined; no reliable product-specific data are available.

12.4. Mobility in soil

Not determined.

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. Other adverse environmental effects are not known.

Section 13: Disposal considerations

13.1. Waste treatment methods

Treat unused material, solutions, spill residues and contaminated packaging as hazardous laboratory waste. Dispose through an approved waste contractor in accordance with local, regional and national requirements. Do not discharge to drains. Waste classification must also consider the solvent and other reagents 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 available supplier information; confirm against the final formulation and quantity.

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 and protected from heat and moisture 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 or REACH Annex XIV substance, subject to confirmation of the exact derivative, impurities and additives. Applicable restrictions must be checked for the final formulation.

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: Conservative read-across from comparable amine-reactive activated esters; exact Acrylink TFP product 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 handling of reactive laboratory chemicals, spill response and waste segregation.

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