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TECHNICAL DATA SHEET (TDS)

Product: TriAct™ Acmella | Material code: FG-TriAct-Acmella-002

Revision date: 16 September 2026 | Version: 1.0

1. Product description

TriAct™ Acmella is a cosmetic ingredient comprising of a propanediol water extraction of the Acmella Oleracea flowers. The ingredient is intended for incorporation into cosmetic and personal care formulations.

Country of Origin: South Africa

2. Intended use

TriAct™ Acmella is intended for use in cosmetic formulations to help soften the appearance of fine lines and wrinkles and support a smoother, more youthful-looking skin appearance. Not for ingestion.

3. Composition (w/w)

INCI name	Purpose	CAS No.	%
Propanediol	Solvent / Emollient	504-63-2 / 26264-14-2	70-80%
Aqua	Solvent	7732-18-5	10-20%
Acmella Oleracea Extract	Botanical extract	90131-24-1	5-10%

4. Technical properties

Parameter	Method	Typical value
Appearance @ 20 °C	Visual QC-SOP-001	Light golden liquid
Colour	Visual QC-SOP-001	Gold
Odour	Organoleptic QC-SOP-001	Mild characteristic herbaceous
pH (25 °C)	pH Meter QC-SOP-004	4.0-6.0
Relative density @ (g/mL)	Pycnometer QC-SOP-002	1.00-1.20
Flash point	ASTM D93 (adapted)	>100°C
*Microbiological testing	ISO 17516:2014	TAMC ≤10^2 CFU/g; TYMC ≤10^2 CFU/g; specified pathogens absent

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5. Quality / release information

Each batch of TriAct™ Acmella supplied with a Certificate of Analysis (CoA) indicating batch identification, traceability, and release results.

Release criteria (routine on each batch)	**Method**	**Acceptance**
Appearance	Visual QC-SOP-001	Light golden liquid
Colour	Visual QC-SOP-001	Gold
Odour	Organoleptic QC-SOP-001	Mild characteristic herbaceous
Relative density @ 20°C (g/mL)	Pycnometer QC-SOP-002	1.00-1.20
pH @ 25°C	pH meter QC-SOP-004	4.0-6.0
HPLC, quantitative determination	Validated internal HPLC method	Spilanthanol >0.25mg/ml
*Microbiological	ISO 17516:2014	TAMC $\leq 10^2$ CFU/g; TYMC $\leq 10^2$ CFU/g; specified pathogens absent

Note: TriAct™ Acmella contains an aqueous phase and includes a preservative system

6. Handling and storage

Store below 25˚ C. Keep container tightly closed and away from direct sunlight. Spills may create a slip hazard.

7. Shelf life

The shelf life in sealed original packaging and under normal storage conditions is 24 months after manufacturing date.

8. Packaging

Packaging: As supplied by Velden Botanicals S.A. (e.g., HDPE or suitably lined containers). Available options and pack sizes on request.

9. Safety and regulatory reference

For safety information, hazard communication and transport classification, refer to the corresponding Safety Data Sheet (SDS) for this material code.

10. Efficacy test results

On request.

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11. Processing method

TriAct™ Acmella is produced from raw materials of strictly vegetable origin. The extract is obtained through maceration, followed by filtration. No preservatives or production additives are used.

12. TDS disclaimer

This Technical Data Sheet is provided for product identification and technical guidance only. Typical values are not specifications unless explicitly stated. Product performance and suitability depend on the customer's formulation, processing conditions and intended use. Users remain responsible for compliance with applicable laws and regulations.

13. Change Control Policy

Velden operates a documented Change Control system designed to uphold product quality, safety, performance, and compliance with regulatory requirements. To ensure transparency and continuity, Velden will provide at least 60 days' written notice before implementing any change that could reasonably affect the product's identity, specifications, quality attributes, safety, regulatory status, or intended performance.

Changes subject to notification include, but are not limited to, modifications involving raw material source or supplier, country of origin, formulation or active standardization range, manufacturing site, equipment, or process, critical process parameters, specifications or test methods, packaging components in direct contact with the product, labelling or INCI declarations, and storage or transportation conditions.

All proposed changes undergo formal risk assessment and, where applicable, are supported by validation data. Updated quality and regulatory documentation will be provided as necessary. In cases where urgent changes are required to address safety, legal, or supply continuity risks, Velden will notify customers as soon as practicable and provide supporting justification and mitigation actions.

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