

VAUDE Greenpeace Detox Commitment

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In line with **VAUDE**'s long-term sustainability program **VAUDE** recognizes the urgent need for

- a) eliminating all releases of all hazardous chemicals (1)
- b) new responsible business models (12) and resource stewardship

According to its approach based on Prevention (2) and the Precautionary Principle (3) **VAUDE** is committed to

- i - zero discharges (4) of all hazardous chemicals into the environment
 - ii - reducing and maintaining complete supply chain priority resource use within equitable and planetary limits
- associated with the making and using of all products **VAUDE** produces and / or sells (5) by no later than 01 January 2020.

We recognize that to achieve this goal,

- mechanisms for disclosure and transparency about the hazardous chemicals used in our global supply chains are important and necessary, and should be in line with the 'Right to Know principle' (6).
- production and consumption business model changes, that revolutionise the design and systems of consumption and living, are required, including a system shift to more comprehensive Extended Producer Responsibility (11) that is based on slow, closed loop, resource constrained and non toxic manufacturing¹.

VAUDE also commits to fully and publicly support systemic (i.e. wider societal and policy) change to achieve zero discharges (4) of hazardous chemicals (associated with supply chains and the lifecycles of products) within one generation (7) or less. This commitment includes sustained investment in moving industry, government, science and technology to deliver on systemic change and to affect system change across the industry towards this goal, recognising that this may require resource quotas, hazardous chemical and selected virgin material taxes/fees.

¹ Recognising that to eliminate hazardous chemicals it is also necessary to consolidate and change the overall business model, towards more supply chain stability, to enable this.

VAUDE agrees to publicly support efforts to eliminate all global hazardous chemical use, and to fully integrate the precautionary principle and the public's right-to-know regarding all environmental aspects across our operations.

VAUDE acknowledges our individual corporate responsibility to always operate with a strong system of environmental oversight of our suppliers and our operations.

This commitment, as well as the individual action plan - and the links to the evidence supporting the delivery for all aspects of this commitment no later than the delivery dates indicated within this commitment -will always be available to the global public via our main public webpage.

VAUDE understands the scope of the commitment to be a long term vision – with on-going ambitious practices including the following individual action plan:

Individual action plan

1. Supply-chain disclosure

In line with **VAUDE**'s commitment to the public's 'right to know' the chemical substances used within its global supply-chain and the products it sells, **VAUDE** will be taking the following actions:

1. publish our company (updated) 'Combined' or 'Manufacturing' 'Restricted Substances List (MRSL)' (RSL including manufacturing and product restricted substances) containing detection limits (4) on the same date as the publication of this commitment. Annually thereafter update this MRSL to reflect our full implementation of the precautionary principle and always applying the best current technology, making use of the best (when necessary external) expert processes that are based on the Detox principles and definitions i.e. the hazards based approach and the lowest reporting limits technology can achieve.
2. begin with the detailed public disclosure of discharges of hazardous chemicals based on reported quantities of releases of hazardous chemicals to the environment, facility by facility, year by year, made available in a searchable, online and international database/platform.

The list of chemicals to report on in this database should begin with, at least, the 11 priority chemical groups (as per endnote 8) and detection limits (as per our company MRSL). It will always apply the best current technology (as per endnote 4) in its supply chain via full facility transparency (i.e. detailed location and

individual data of each facility) and disclosure of chemical-by-chemical use and discharges data. Beginning with the following actions:

- i) By no later than 15 February 2017 after the publication of this commitment, we will publish the full testing evidence of at least 80% by volume of materials (main fabrics and linings) of our global wet process facilities or affiliates where hazardous chemicals are used (prioritizing additional suppliers in the "global south"), and will disclose their discharge data by using the IPE Detox Platform (or equivalent).
- ii) By no later than 15 February 2017, 100 % by volume of materials (main fabrics and linings) of our wet process suppliers, facilities or affiliates, where hazardous chemicals are used (as per i)above), will be publicly associated to our company to ensure the supplier facilities disclosure via IPE (or equivalent) is verifiable by external third parties (a list including full name, address and country via Vaude homepage).
- iii) **VAUDE** agrees to always ensure the discharge data disclosure is fully credible and reflects the MRSL (ie including any future priority groups identified) and that we will always disclose via the IPE Detox Platform (or equivalent digital and public platform).

2. 11 priority hazardous chemical groups elimination policy

Fully aligned with our implementation of the precautionary principle across all of our environment-related operations, we recognise the intrinsic, or potential intrinsic hazardous properties of all 11 priority hazardous chemical groups (as per endnote 8), and therefore acknowledge it is our priority to eliminate the use and discharge of these chemicals into the environment across our global supply chain and our operations. There are multiple supply-chain pathways for potential contamination (including chemical formulations) and we will enhance both training and auditing of our supply-chain and our operations to prevent that any of these chemicals enter into our supply chain via undocumented contamination of chemical supplier formulations.

In line with our elimination policy, **VAUDE** will enforce its ban on the 9 of the 11 priority hazardous chemical groups (as per endnote 8), specifically Phthalates, Brominated and chlorinated flame retardants, Azo dyes, Organotin compounds, Chlorobenzenes , Chlorinated solvents, Chlorophenols, Heavy metals such as cadmium, lead, mercury and chromium (VI), and Short chain chlorinated paraffins , with the following actions:

- i. publish the results of an investigation and the full testing evidence (including discharges, inputs and product spot checks) into the current compliance to this requirement and reporting the findings annually to the public and
- ii. strengthening our supplier contract language and training and capacity building to ensure only chemical formulations free of these priority hazardous chemical groups are utilized and
- iii. work with our supply chain and other global industry leaders, to ensure the most current technological limits of detection are reflected via the lowest detectable limits within our testing regimes and
- iv. publicly document how each of the 9 priority hazardous chemical groups have been substituted by safer alternatives and publish these case studies via the the online platform subsport.org or an equivalent public platform by no later than 6 months after it comes to our attention.

3. Alkyl phenols & their ethoxylates (APEOs) elimination policy

Consistent with the precautionary principle and the potential intrinsic hazardous properties of all APEOs, **VAUDE** commits to eliminate any APEOs used in any of the products **VAUDE** produces and/or sells. The elimination of all APEOs used by any of the products we produce or sell will be supported by:

- i. Enforcing the elimination of APEOs by strengthening our supplier contract language and training and capacity building to ensure only APEOs-free chemical formulations are utilized;
- ii. Establishing a rigorous system of control to ensure that no traces of APEOs find their way into our supply chain in line with the above;
- iii. Publishing the results of an investigation and the full testing evidence (including discharges, inputs and product spot checks) into the current compliance to this requirement and reporting the findings to the public annually starting in 2016
- iv. Work with our supply chain and other global industry leaders, to ensure the most current technological limits of detection are reflected via the lowest detectable limits within our testing regimes;
- v. Publicly document how APEOs have been substituted by safer alternatives and publish these case studies via the online Subsport.org platform or an equivalent public platform by no later than 6 months after they come to our attention.

4. PFCs - Perfluorocarbon / Polyfluorinated Compounds (as per endnote 9) elimination policy

Consistent with the precautionary principle and the potential intrinsic hazardousness of all PFCs, **VAUDE** aims to eliminate any PFCs used in any of the products **VAUDE** produces and/or sells across our global- supply chain by 31 December 2018. The elimination of all PFCs used by any of the products we produce or sell will be supported by:

- i. Publishing the results of an investigation and the full testing evidence into the current compliance to this requirement (including discharges, inputs and product spot checks) and reporting the findings to the public annually by no later than by winter season 2018, latest December 2018 (on shelf);
- ii. Strengthening our supplier contract language to ensure only chemical formulations free of PFCs are utilized and establish a rigorous system of control to ensure that no traces of PFCs find their way into our supply chain in line with the above;
- iii. Document how PFCs have been substituted by safer alternatives and publish these case studies via the online Subsport.org platform (or equivalent) as soon as possible and by no later than by 31 December 2018;
- iv. Work in partnership with our supply chain and other global industry leaders to accelerate the move to non-PFC technologies. Including sharing best practices on the performance tests.

5. Targets for Other Hazardous Chemicals

As an important part of our implementation of the precautionary principle, **VAUDE** commits to regularly **review** (as per hazards based hazardous chemical screening methodology in annex 1), at least annually, the list of chemicals used in our operations and our global supply-chain (inventory), and our MRSL. **VAUDE** will apply the latest scientific findings to update our chemical policy, at least annually, to further restrict or ban chemicals, as new evidence on their impact becomes available.

In line with the Right-to-Know principle we will deliver full public availability and transparency of our restricted substance lists ,the hazardous chemical screening methodology used and audit process.

In this context we will also set clear intermediate progress targets on the elimination of hazardous chemicals beyond the 11 priority hazardous chemical groups by no later than 9-12 months after date of commitment.

This will support our long-term road to elimination of all hazardous chemical use by no later than 01 January 2020. This public detailed hazardous chemical-by-chemical schedule will be updated annually.

6. Responsible Design and Living (via Extended Producer Responsibility)

In order to develop slow, closed loop, resource constrained and non toxic manufacturing- recognising that to eliminate hazardous chemicals it is also necessary to consolidate and change the overall business model **VAUDE** will implement a Responsible Design and Living policy and system (12) based on comprehensive Extended Producer Responsibility (EPR) (11) that will:

- i. conduct an analysis of the economic value of the pre-consumer waste and/or end-of-life (clothing and textiles) and/or returned products and materials as soon as possible and report on pre-consumer waste efficiency by no later than end 2017.
- ii. as a first step to implement a responsible "**closed-loop**" life cycle for all products we produce and / or sell
 - Implement a product design policy which promotes and incentivates circular design thinking and product development
 - Promote existing and roll out new systems and cooperations for re-collection of used VAUDE products that cover 100% of our customer sales points (online and in -shop) in Germany and at least one more strategic market with a "take-back" programme (13) by end 2017
- iii. initiate or expand 2 global **new ownership** systems such as lending, sharing, renting, second hand platforms, upcycling, recycling and repurposing products by no later than 31 December 2017 .
- iv. Develop and publish a consumer facing use, care & repair guide providing best practice information on how to prolong the product 's life span, including VAUDE guarantees and after sales services, covering 80 % of the consumer claim reasons by end 2018.

v. raise consumer awareness and change attitudes and demands/ expectations regarding modes of use and ownership of clothing and the need to work towards eliminating "linear/non circular" and "disposable" (designed for short lifespan) products by taking part in at least 10 workshops, studies, events annually.

7. Self reporting on the Detox Commitment

VAUDE delivers a full public schedule of evidence supporting the delivery of each and every component of this Detox commitment by no later than the date indicated in this Detox commitment. The core responsibility principles for delivering on our commitment are:

i) **VAUDE** will always proactively provide the public precise schedules for all our detailed and credible evidence (e.g. all hazardous chemical testing via the use of our company MRSL) supporting the delivery of all aspects of our Detox commitment.

ii) **VAUDE** is responsible to proactively, publicly and transparently provide full details as to any deviations from the delivery of any aspect of our Detox commitment, ie make transparent our solution within no more than 30 days.

Endnotes:

(1) All hazardous chemicals means all those that show intrinsically hazardous properties: persistent, bioaccumulative and toxic (PBT); very persistent and very bioaccumulative (vPvB); carcinogenic, mutagenic and toxic for reproduction (CMR); endocrine disruptors (ED), or other properties of equivalent concern, (not just those that have been regulated or restricted in other regions).

(2) This means solutions are focused on elimination of hazardous chemical use at source, not by end-of-pipe techniques or via risk management. This requires either substitution with non-hazardous chemicals or where necessary finding non-chemical alternative solutions, such as re-evaluating product design or the functional need for chemicals.

(3) This means taking preventive action before waiting for conclusive scientific proof regarding cause and effect between the substance (or activity) and the

damage. It is based on the assumption that some hazardous substances cannot be rendered harmless by the receiving environment (i.e. there are no 'environmentally acceptable'/'safe' use or discharge levels) and that prevention of potentially serious or irreversible damage is required, even in the absence of full scientific certainty. The process of applying the Precautionary Principle must involve an examination of the full range of alternatives, including, where necessary, substitution through the development of sustainable alternatives where they do not already exist.

(4) Zero discharge means elimination of all releases, via all pathways of release, i.e. discharges, emissions and losses, from our supply chain and our products. "Elimination" or "zero" means 'not detectable, to the limits of the best current technology' i.e. the lowest reporting limits technology can achieve,, and only background levels of naturally occurring substances are acceptable. The zero discharge approach includes the 'clean factory' approach ie taking responsibility for the chemicals used and released by the whole facility and not just the batch or production line associated with the company's order

(5) This means the commitment applies to the environmental practices of the entire company (group, and all entities it directs or licences) and for all products produced or sold by **VAUDE** or any of its subsidiaries. This includes all its suppliers or facilities horizontally across all owned brands and licensed companies as well as vertically down its supply chain.

(6) Right to Know is defined as practices that allow members of the public access to environmental information – in this case specifically about the uses and discharges of chemicals based on reported quantities of releases of hazardous chemicals to the environment, chemical-by-chemical, facility-by-facility, at least year-by-year.

(7) One generation is generally regarded as 20-25 years.

(8) the 11 priority hazardous chemical groups are : 1. Alkyl phenols & their ethoxylates (APEOS) 2. Phthalates 3. Brominated and chlorinated flame retardants 4. Azo dyes (that release carcinogenic amines through reductive cleavage) 5. Organotin compounds 6. Per- and poly-fluorinated chemicals 7. Chlorobenzenes 8. Chlorinated solvents 9. Chlorophenols 10. Short chain chlorinated paraffins 11. Heavy metals such as cadmium, lead, mercury and chromium (VI).

(9) Polyfluorinated compounds, such as fluorotelomers, can serve as precursors that degrade to form perfluorinated carboxylic acids, e.g. PFOA

(11) Extended and Producer Responsibility is individual and global company responsibility to ensure the whole lifecycle of a product and the delivery of a

function (from sourcing and design to use, re-use and recycling or final decontamination and treatment):

- protects the well being of the natural environment, stays within planetary boundary limits and supports the socio economic well-being of workers and local communities;
- ensures the system for end-of-life collection achieves high use of product and material quality through effective collection, disassembly and re-use or recycling (can be external third parties);
- ensures the system for reuse (or any life-extension of the product), recycling and final treatment incentivises changes in design by the product designer both financially , through internalization of the real own-brand/differentiated end-of-life costs into the company business model, and through information feedback, including to other actors in the extended life-cycle;
- includes supporting and implementing fully circular resource use and full resource stewardship (recognizing that natural resources are not 'owned' but 'borrowed' to meet a need).

(12) Responsible Design and Consumption or Living business models – are systems of products and services that are designed to deliver functions to meet needs, integrating full circularity and EPR (as defined above). These systems include a comprehensive process for identifying all lifecycle aspects, considering the most responsible design, production, product use and closed-loop reuse and recycling, aiming to maximize the use of closed-loop and slow-loop manufacturing and value creation. Closed loop systems should give preference to local solutions where possible.

(13) Take-back programmes shall enable high use of products and materials in the form of re-use and recycling through effective collection maintaining or upgrading material quality. Un-reusable or recyclable materials should be sent to decontamination or environmentally-sound treatment. Take-back programmes shall be designed to maximize products' usage life span and social

benefit. We commit to continuously increasing the percentage of recycled or renewable materials used in new products, and to report publicly about it.

(14) durable means designed for long life span high material and product quality. Highly-durable means, among others, the product has a repair guarantee of eg minimum 10-20 years (adapted to product type) ensuring repair (including reproofing) or replacement if brought back by the customer.

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Annex 1 - Detox hazardous chemical screening methodology:

Any hazardous chemical screening methodology should include (but not be limited to) the following requirements

- 1) Has a hazard based approach without use of any 'risk based' criteria for excluding certain chemicals.
- 2) The hazard approach should include a broad range of hazardous categories, ie at least those considered under EU REACH regulation.
- 3) Make use of a wide range of sources of information (eg at least all publically available information).
- 4) Make use of cautious thresholds in hazardous criteria setting (ie at least those used under best practice regulation and conventions)
- 5) Incorporate ongoing assessment of the effectiveness of the screening tool at identifying hazardous substances (eg by comparison of screening outcome with other forms of assessment for a sub-set of chemicals)
- 6) The full criteria and methods applied and full data behind results must be open to public scrutiny, including the types of hazardous property which must be evaluated and any thresholds used as well as full transparency on the information sources used to assess hazard
- 7) The screening methodology approach must take account of the hazards of accessory chemical and/ or breakdown products which are generated through the use or release_of any one particular chemical ingredient.
- 8) The screening methodology must recognise the importance of physical form e.g. nanomaterials, polymers and whole products where applicable.
- 9) Where there are legitimate reasons for concern regarding the intrinsic hazards of a chemical, even if information is insufficient to verify those hazards, action must be taken to obtain sufficient information to enable adequate assessment of the chemical. When there is no information on the chemical the 'hazardous until proven non- hazardous' assumption should

apply. This includes making assessments on a chemical group basis, drawing on information for closely related chemicals