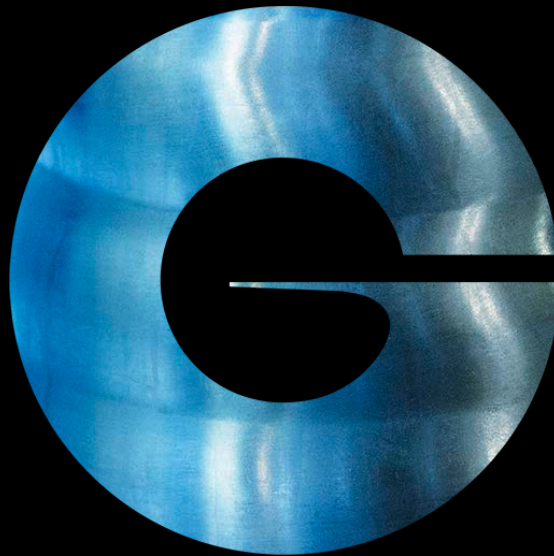


RAPS

Leading the way in human and environmental safety



Givaudan

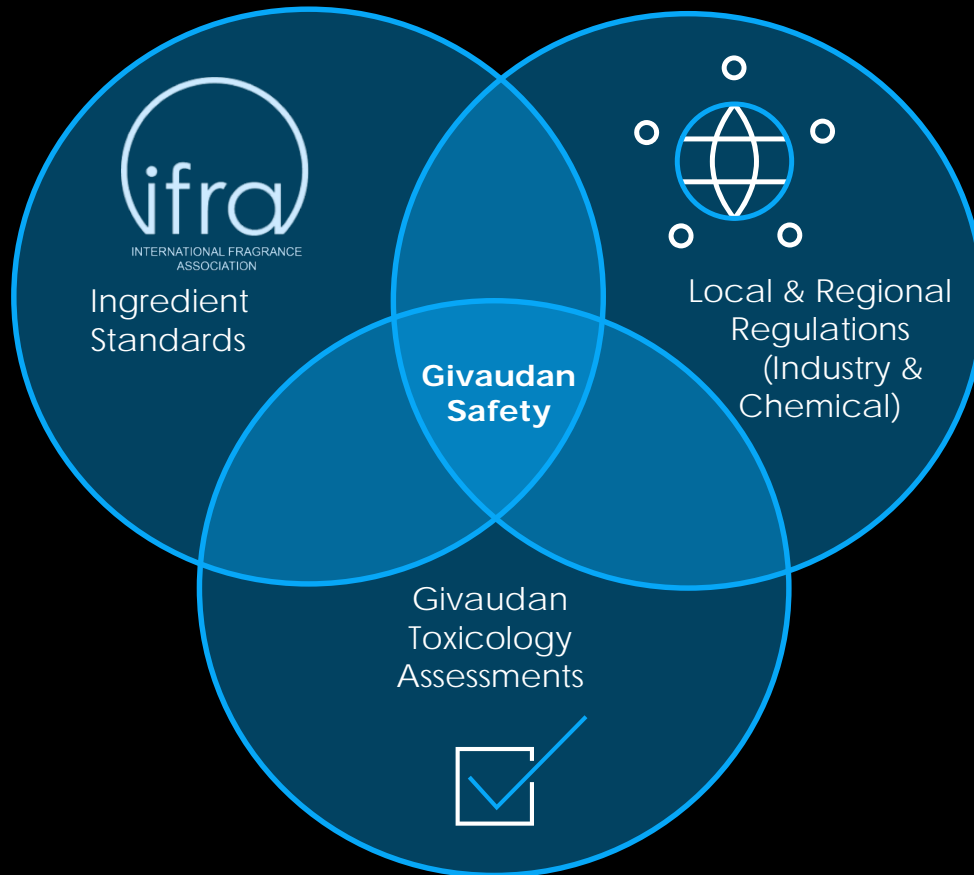
engage your senses

Our mission

«We ensure we create the safest fragrances for our customers while respecting the environment»

We protect consumers

Going beyond established safety standards



Our Knowledge Base

We have deep expertise in 6 key areas



Compliance &
Communication



Human Safety



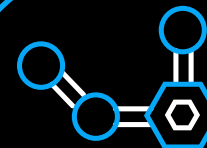
Environmental
Safety



Chemical Data
Management

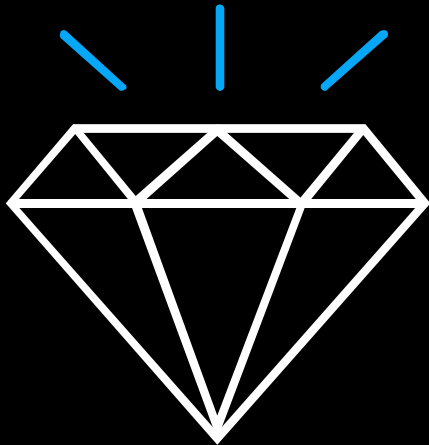


Analytical Chemistry

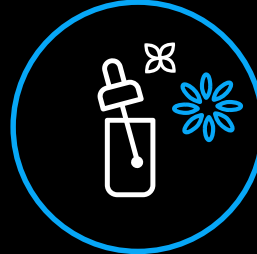


Product
Stewardship

Where we lead in the industry



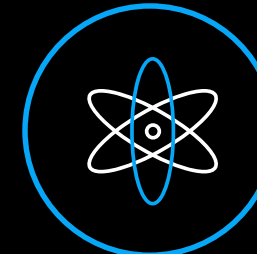
Innovative regulatory solutions



Toxicological science

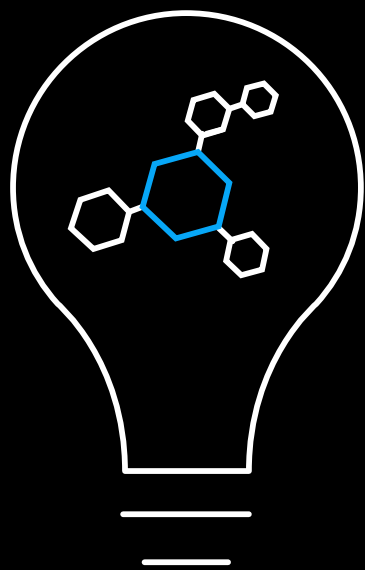


Environmental science



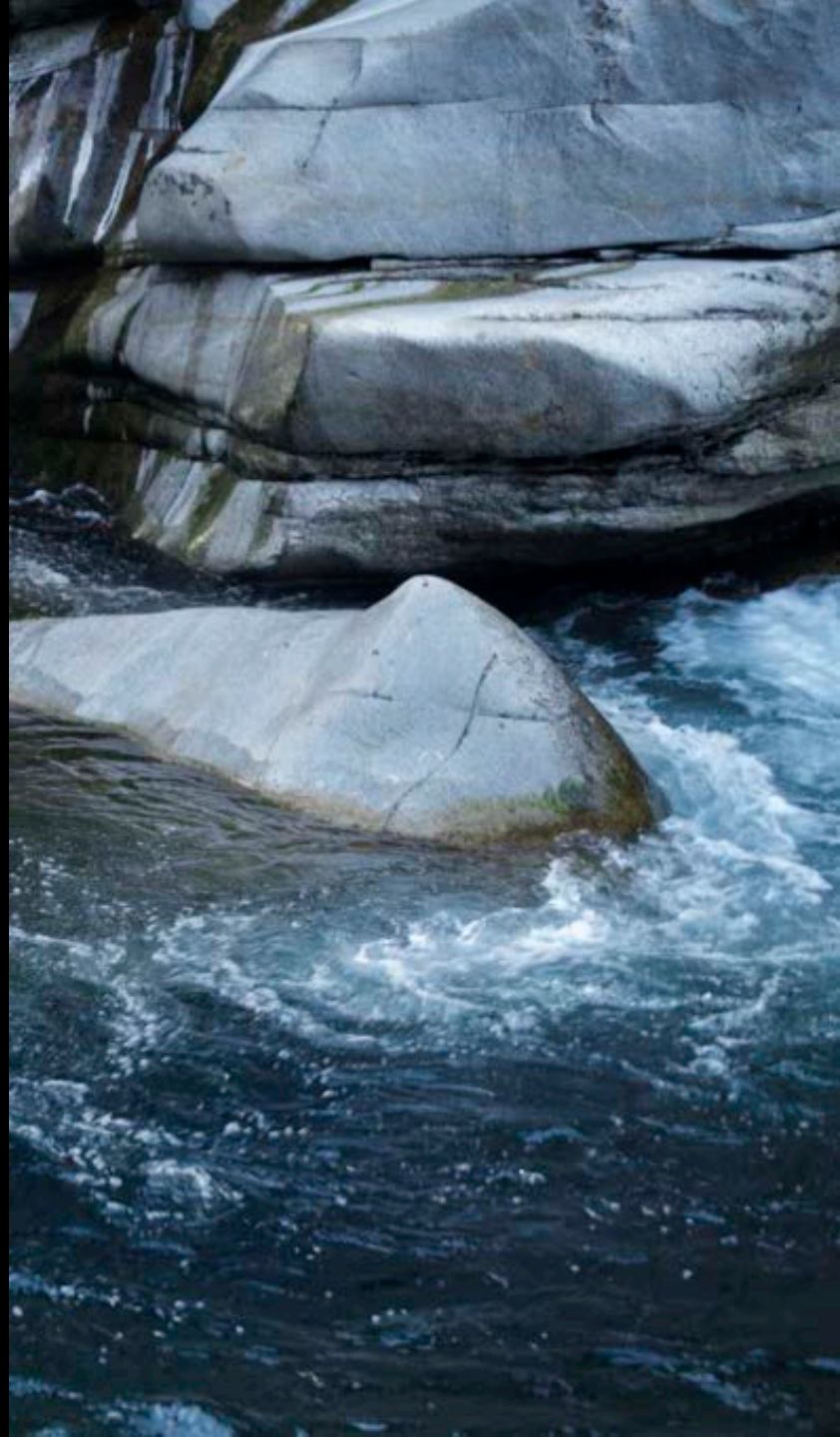
REACH in Europe

Innovative regulatory solutions



Givaudan

engage your senses



Innovative regulatory solutions

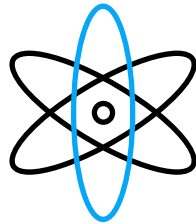
Managing regulatory compliance

We develop novel methods and proprietary systems to enable the design of compliant fragrances globally.



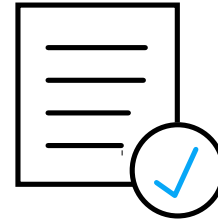
Advocacy & surveillance

Monitor & influence regulatory evolution on a global basis



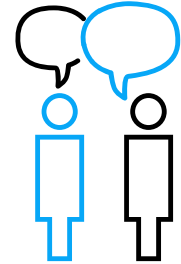
Impact study

Proactive identification of changes that may impact us or our customers



Action plan

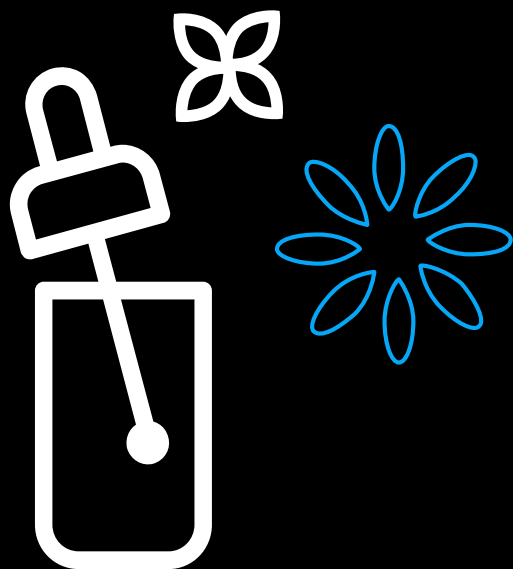
Proactive plans defined to respond to preserve our perfume creations



Communication

Information is communicated internally and with customers as needed

Toxicological science



Givaudan

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We invest in toxicological science

We lead in world renowned development of novel non-animal methods to support safe use testing of fragrance materials:

- Our Ingredient Pallet (Cardex) has been evaluated for safety as used
- We set internal restrictions for captives and materials not covered by IFRA
- We lead/invest in understanding toxicity of raw materials
- We lead advocacy to reduce regulatory impact on our materials
- We apply Green Chemistry principles to design safety into new molecules

We use computational toxicology to predict regulatory issues

Environmental science



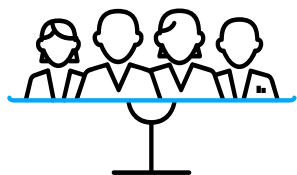
Givaudan

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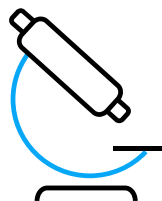
Our environment safety programme

Team



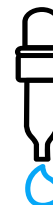
Dedicated specialists in environmental fate and ecotoxicology

Lab



Environmental laboratories in-house

Tests



Novel methods for environmental testing
Leading in the assessment of naturals

We invest in Environmental Science

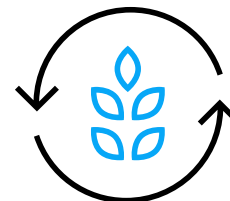
Developing capabilities for the future

We develop the most diverse pallet of environmentally friendly fragrance materials through cutting edge research in bio-degradation and bio-accumulation in our dedicated Givaudan environmental testing laboratory:



Biodegradability Research

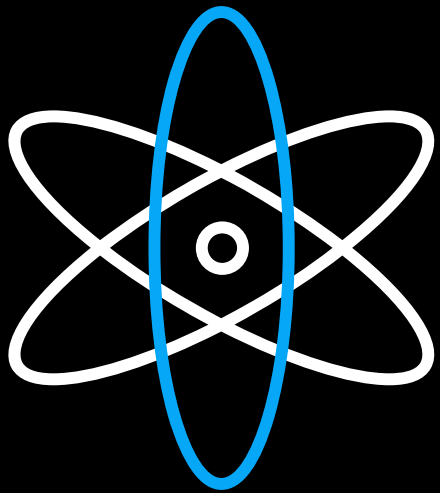
- Biodegradation and physico-chemical studies, and analytical method development
- Continued collaborative research with biodegradation expert groups
- Conducted over 1200 biodegradation studies since 1991



Bioaccumulation Research

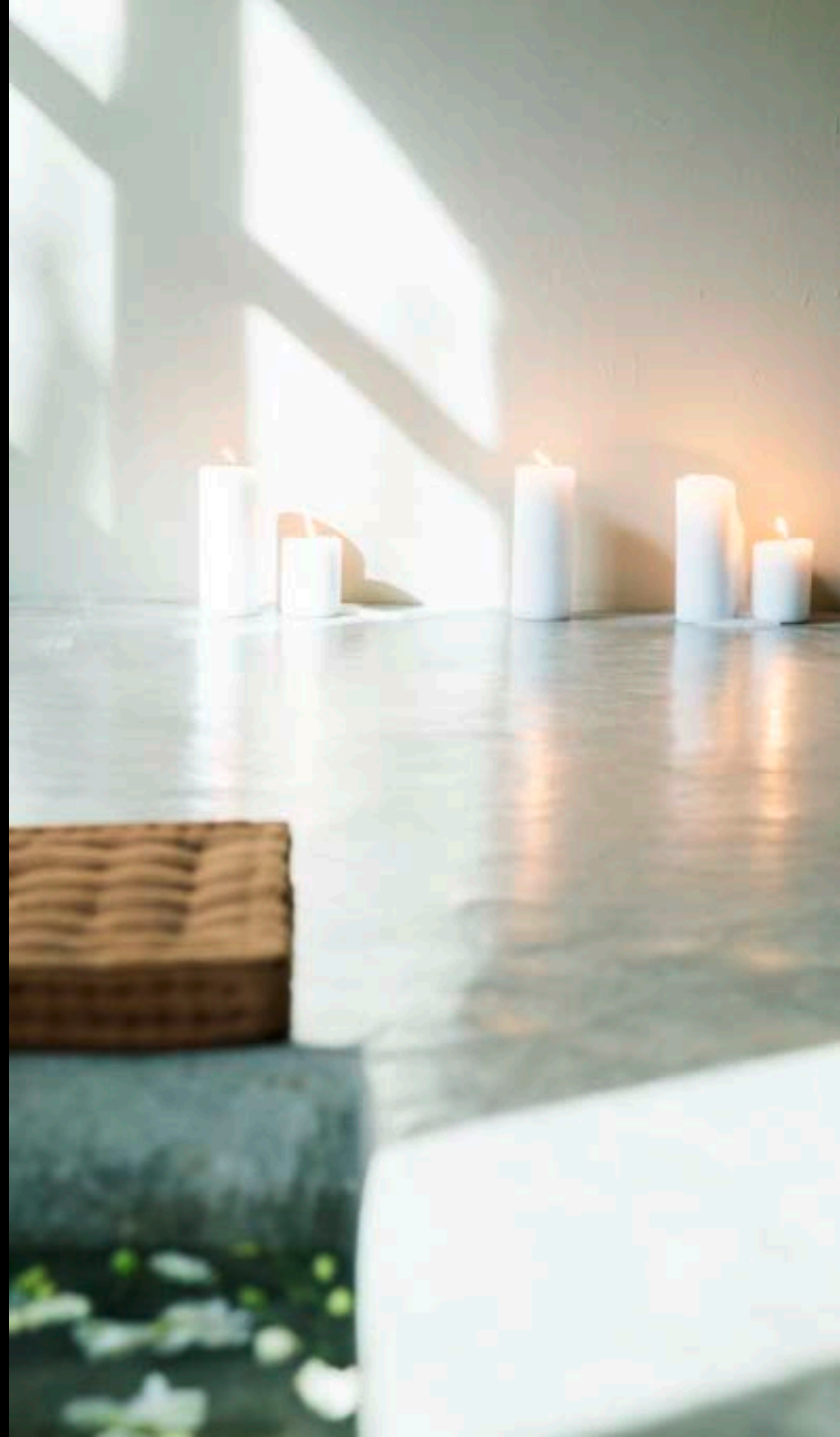
- Developing customized test methodologies for volatile substances
- In-house *in vitro* capabilities to measure bioaccumulation in fish
- In house acute algae and daphnia
- In house fish gill cell line assay

REACH Europe



Givaudan

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We invest in REACH to assure continuity of supply in the EU

We have **invested CHF50M over 10 years** to demonstrate safety of our materials using leading methods in toxicology and environmental science

Largest
registration
portfolio in
scope in the
industry
(>200)

Keratinosens
Non-animal
assay for skin
sensitization

Management
of customer
registrations

Investing in
further
testing to
defend
registration
decisions

Driving
strong
support from
suppliers
(>670
ingredients)

Strong supply
chain
management

How we help our customers
Delivering full regulatory
compliance for our
ingredients and formulas

Our Customer technical relations

Providing expertise for the safety of your fragranced products



Specialists Team

- Single point of contact
- Coordination of global client business needs
- Tailored technical advisory services



Customers

- Help to develop norms tailored for your company:
 1. Regional regulatory requirements
 2. Product category specific requirements
- Ensure compliance
- Deliver compliance documentation



Consumers

- We ensure consumer safety by science based assessment of our fragrance materials

Delivering latest information to our customers

Involvement in the industry

Givaudan plays a global key leadership role in many associations and industry committees and task forces.

Open communications

Givaudan tailors open communication with key partnerships to select clients on latest regulatory trends.

Our newsletter

Givaudan RAPS Flash: provides the latest information about the global regulatory and safety trends.

RAPS Flash Issue 47/ June 2017



The RAPS Flash is an external newsletter from the Fragrance Division issued on a specific Regulatory Affairs and Product Safety topic.

Please find the latest update on Givaudan tracking of fragrance ingredients we are closely supporting or monitoring. This provides status on key materials and activities both from a Regulatory and Toxicology perspective globally.

Ingredients monitoring summary Latest update

Givaudan is supporting significant activity to defend ingredients important to our company and the industry, either directly or working with other industry partners and IFRA (International Fragrances Association/ RIFM (Research Institute for Fragrances Material).

The monitoring summary now also includes, in its second part, those ingredients which have been identified for Evaluation or other actions through the EU REACH (Registration, Evaluation, Authorization and Restrictions of Chemicals) programme. We hope this helps you remain abreast of ingredient support and as always our experts are available if you would like more information on any aspect of this information.

Ingredient name	Issue	Status	On-going role and position
Anise alcohol, Citronellinylaldehyde, Benzyl salicylate and Trans-anethole	Australia : Potential concentration restrictions in cosmetic and household products with associated additional warning statements on product where the restrictions are exceeded.	Australia TGA and Joint Advisory Committee on Chemicals and Medicines Scheduling (JACC-ADMS) are expanding poisons scheduling updates based on applications submitted by NICNAS under their IPAP (Inventory Multi-tiered Assessment and Prioritisation) program, where they are assessing existing chemicals. Additional warning statements would be required on cosmetic and personal care preparations where the ingredient exceeds 0.001 and 0.01% in leave on and rinse off products, respectively.	Givaudan is working with IFRA to confirm the status and timing for the implementation of the regulation.

Thank you