



4sustainability® is an innovative implementation framework and a registered mark assuring the sustainability performances of fashion & luxury supply chain.

The framework is built and continuously updated in line with the best methodologies, standards and practices.



Raphael s.r.l.

has joined the 4sustainability® Commitment
and applies the 4s CHEM Protocol
for eliminating toxic and harmful substances in production
through the ZDHC MRSL.

CHEM IMPLEMENTATION LEVEL



COMPANY ID Nr.

4S-100262

ASSURANCE RATING:

81%

VERS. PROTOCOL CHEM:

4.3

ISSUE DATE:

16/10/2023

EXPIRATION DATE:

16/10/2024

Issue by:

Process Factory s.r.l.

Via A. Da Noli, 4/6 - 50127 Firenze

CF/P.IVA: 058052004





ABSTRACT

4s Assurance Report Chemical Management

Version 4.3



Raphael s.r.l.

4s REQUIREMENTS

Management system

Evaluating the implementation of a chemical management system within the company. The verified requirements range from the presence and communication of an internal sustainability policy, to staff training, as well as to the definition of reduction targets and monitoring of over-time performance.

Chemical risk management

Assessing chemicals risk management within the factory. The verified requirements measure the chemical inventory information management, the related qualification level to ZDHC MRSL 2.0, and related phase out plan and improvement plan.

Materials risk management

Assessing the management and control system of incoming materials and their compliance level with 4sustainability PRSL, as a tool for reducing the risk of incoming contamination in the production process.

Supply Chain assessment

Evaluating the company's supply chain management and assessment. The verified requirements measure the mapping activity, qualification, engagement, training and monitoring of subcontractors and material suppliers and all the procedures in place.

Process management

Assessing the production processes management and traceability. The verified requirements measure the correct functioning of the internal traceability system and its digitalization. Moreover it includes process due-diligence tests in order to monitor contamination on the products.

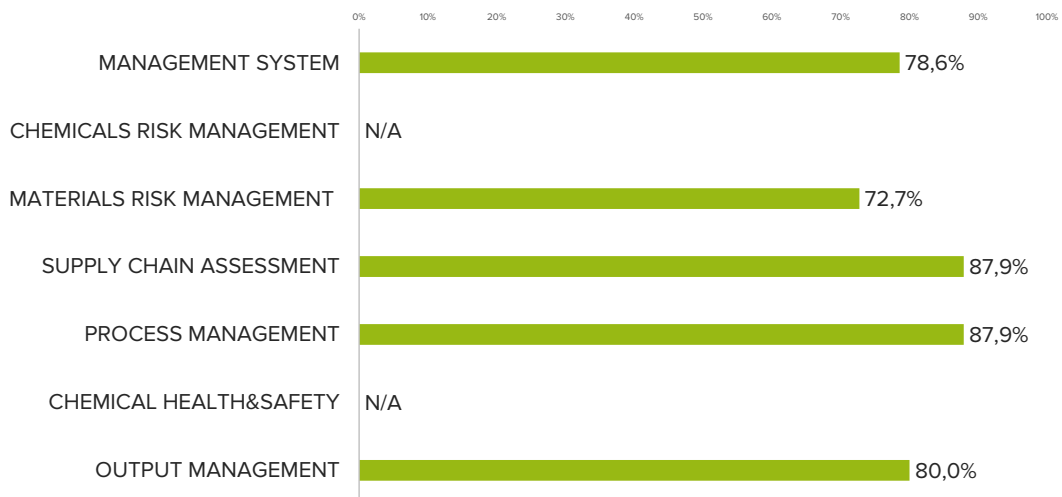
Chemical Health&Safety

Assessing health and safety requirement linked to chemical management. The verified requirements range from labeling, handling and storage of chemical products within the factory, to emergency procedure and waste management.

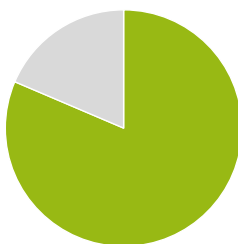
Output Management

Evaluating the company management of process output. The verified requirements range from legal permission for emission to the control of waste water according to ZDHC Guidelines. for internal and external processes and final product testing.

4S REQUIREMENT - IMPLEMENTATION LEVEL



ASSURANCE RATING



81%

ASSURANCE DATE

06/10/2023

PRODUCTION MODEL

The company manufactures and sells fabric.
The company carries out internal processes of OR does not carry out any internal process,
and outsources processes of OR does not outsource any process.

Name of Internal Chemical Manager:

Marta Tadi

ZDHC accredited training course and date:

MRSL ZDHC TIG Training - 4/6-10-2021

INPUT

CHEMICALS

% of wet processes carried out internally out of the total workload

0%

% outsourced wet processes - CI VERIFIED by audit

83%

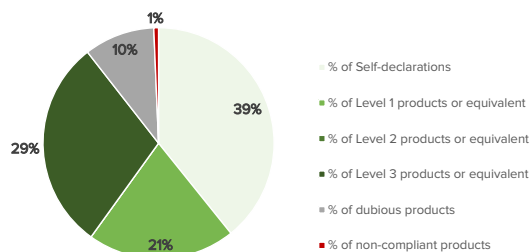
% outsourced wet processes - CI VERIFIED by remote assessment

11%

% outsourced work - missing CI data

6%

VERIFIED CHEMICAL INVENTORY - SUPPLY CHAIN AVERAGE



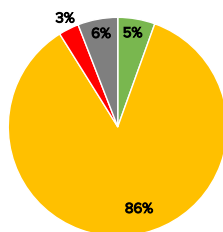
The production coverage is calculated from the meters of textile wet processed by the subcontractors.

TOT n. of verified chemical inventory:

5

RAW MATERIALS

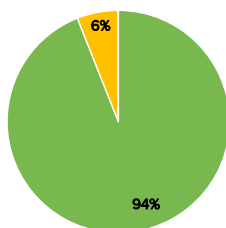
RAW MATERIALS SUPPLIERS RATING



- % of purchases from material suppliers with high rating
- % of purchases from material suppliers with medium rating
- % of purchases from material suppliers with low rating
- % of purchases from material suppliers with no rating

PROCESS

CHEMICAL HIGH-RISK EXTERNAL PROCESSES SUBCONTRACTORS RATING



- % of externalised volume to high-risk processes subcontractor with high rating
- % of externalised volume to high-risk processes subcontractors with medium rating
- % of externalised volume to high-risk processes subcontractors with low rating
- % of externalised volume to high-risk processes subcontractors with no rating

OUTPUT

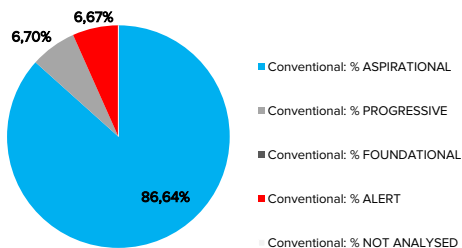
EXTERNAL WASTEWATER

SUBCONTRACTOR 1

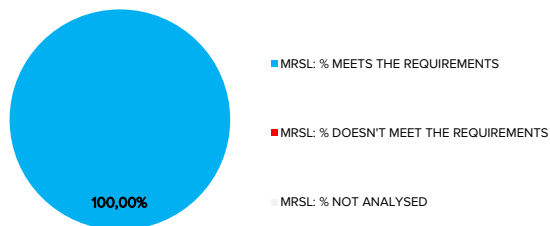
% OF EXTERNALISED PROCESSES: **62%**

Internal Wastewater Treatment Plant - POST TREATMENT MONITORING

Conventional Parameters



MRSL Parameters

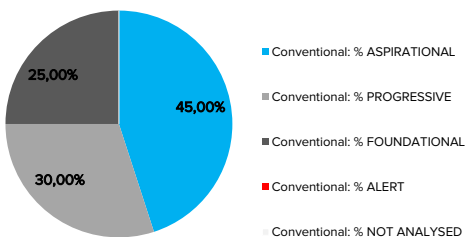


SUBCONTRACTOR 2

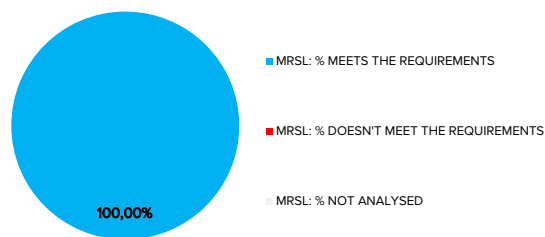
% OF EXTERNALISED PROCESSES: **19%**

Internal Wastewater Treatment Plant - POST TREATMENT MONITORING

Conventional Parameters



MRSL Parameters

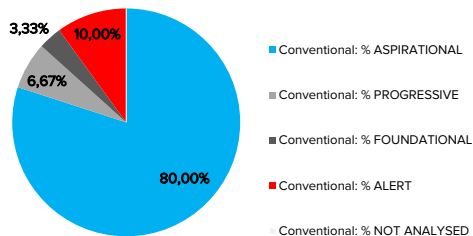


SUBCONTRACTOR 3

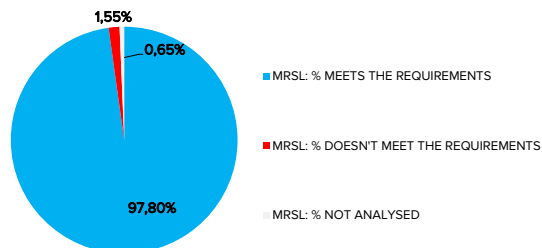
% OF EXTERNALISED PROCESSES: **2%**

Internal Wastewater Treatment Plant - POST TREATMENT MONITORING

Conventional Parameters



MRSL Parameters



SUBCONTRACTOR 4

% OF EXTERNALISED PROCESSES: **0%**

0



Supplier
to Zero

By Ø ZDHC



Acknowledgement of Completion

Based on supplier self-evaluation,
this document acknowledges

Lanificio Raphael

has successfully completed Supplier to Zero (Foundational Level) on
08.11.2022*

Frank Michel
ZDHC
Executive Director

1688-4410-7E8

Document Control Number