

The background of the image is a close-up, high-resolution photograph of several skeins of white wool yarn. The yarn is tightly wound and has a soft, fibrous texture. The lighting is even, highlighting the natural sheen and slight variations in the white color of the wool. The skeins are arranged in a somewhat circular pattern, filling the entire frame.

**MARZOTTO WOOL MANUFACTURING SRL**  
**MRSL and PRSL**

**Valid from April 2024**

**for all brands of Marzotto Wool Manufacturing Srl**

**Sustainability Department**

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### 1. Scope of MARZOTTO WOOL MANUFACTURING SRL MRS� and PRSL

MARZOTTO WOOL MANUFACTURING SRL has joined ZDHC approach to safer chemical management (<https://www.roadmapzero.com/>). The production of MARZOTTO WOOL MANUFACTURING SRL is a long and complex process. To ensure the highest possible standard of chemical safety and the lowest possible chemical impact on the environment, MARZOTTO WOOL MANUFACTURING SRL has developed the present Manufacturing and Product Restricted Substances List (hereinafter “MWM MRS� and PRSL”).

### 2. Validation of MWM MRS� and PRSL

The MWM MRS� and PRSL includes [ZDHC MRS� 3.1 and the latest updates](#) with the additional restrictions of all PFC’s, and [AFIRM RSL and latest updates](#) and it is applied to all products supplied to MARZOTTO WOOL MANUFACTURING SRL and the processes necessary to produce them, including chemicals, raw materials, semi-finished and finished goods, typically used in the production of apparel. The MWM MRS� and PRSL also refers to Product packaging and other items that are closely connected to the Product.

**If other requirements than those listed in MWM Chemical Restrictions exist for the same substances and product groups in ZDHC MRS� or AFIRM RSL, the requirements specified in MWM Chemical Restrictions have priority.**

The present MWM MRS� and PRSL rev.4 will become effective from April 2023 and will be valid until a new MWM MRS� and PRSL will become effective.

### 3. Definition of Restricted Substances

Restricted Substances are hazardous chemicals whose presence has been banned or limited by law or by MARZOTTO WOOL MANUFACTURING SRL risk assessment because they may be especially harmful for workers and or for the environment.

Usage ban means that the restricted substances must not be used in production processes intentionally and they have not found over the detection limit of the test.

The vendor must inform MARZOTTO WOOL MANUFACTURING SRL about a product not being compliant with the MWM MRS� and PRSL. Failure to inform MARZOTTO WOOL MANUFACTURING SRL will result in legal consequences.

### 4. Suppliers Obligations

Compliance with the requirements of the MWM MRS� and PRSL, EU laws (REACH and BPR) and with specific physical tests is mandatory for all Suppliers.

<b>5. Legend</b>	
AFIRM	Apparel and Footwear International RSL Management
BPR	Biocidal Products Regulation
Ban	Substance not to be used intentionally in production in which the test result must be under detection limit
CAS	Unique numerical identifiers for chemical substances
ECHA	European Chemicals Agency
ISO	International Organization for Standardization
mg/kg	Milligram per kilogram
MRSL	Manufacturing Restricted Substances List
MWM	MARZOTTO WOOL MANUFACTURING S.r.l.
MWM Limit	Restrictions by MARZOTTO WOOL MANUFACTURING
PRSL	Restricted Substances List for Finished Products
REACH	Registration, Evaluation, Authorization and Restriction of Chemical Substances
SDS	Safety Data sheet
w/w	Weight over weight
ZDHC	Zero Discharge of Hazardous Chemicals



WOOL MANUFACTURING

Valid for all brands of MWM

## 6. Chemical Restrictions – Production

Manufacturers and chemical suppliers shall comply with the *Zero Discharge of Hazardous Chemicals Manufacturing Restricted Substance List 3.0* (ZDHC MRSL 3.0), found at [//mrsl.roadmaptozero.com/](https://mrsl.roadmaptozero.com/).

Compliance to ZDHC MRSL is a Minimum Requirement (MR). Therefore, if the supplier is found to intentionally use chemicals listed on ZDHC MRSL in the production process, it will result in MR Violation.

## 7. Chemical Restrictions – Products

Products within the scope of MWM Chemical Restrictions shall comply with *AFIRM's Restricted Substances List (RSL) latest revision*, found at [www.afirm-group.com/afirm-rsl/](http://www.afirm-group.com/afirm-rsl/)

## 8. MWM Group – Additional Requirements

Chemical Substances	CAS	MWM Limit/Requirement	Test method
Formaldehyde	50-00-0	<16 mg/kg	Test method is specified in AFIRM RSL
Biocidal compounds and biocidal claims	Various List of AFIRM and ZDHC MRSL	For products: Biocide-treated articles according to definition in European Biocidal Products Regulation (BPR, Regulation (EU) 528/2012), including biocidal claims “antimicrobial”, “antibacterial”, “anti-odor”, etc. Usage ban	Test methods are specified in AFIRM RSL and ZDHC MRSL See also: <a href="https://echa.europa.eu/regulations/biocidal-products-regulation/understanding-bpr">https://echa.europa.eu/regulations/biocidal-products-regulation/understanding-bpr</a> EU Regulation 528/2012 (BPR), article 3, section 1 (a)
Azo dyes + Arylamines Salts	Various List of AFIRM and ZDHC MRSL	<5.0 mg/kg each	Test methods are specified in AFIRM RSL and ZDHC MRSL
Alkylphenols and Alkylphenol Ethoxylates (AP/APEO): Nonylphenol Ethoxylates NPE Octylphenol Ethoxylates OPE  Nonylphenol NP Octylphenol OP and their isomers	List of AFIRM	SUM ≤25 mg/kg (*)  SUM ≤3 mg/kg (*)	Test methods are specified in AFIRM RSL
Carcinogenic Dyes & Forbidden Dyes	Various List of AFIRM and ZDHC MRSL	<1.0 mg/kg each	Test methods are specified in AFIRM RSL and ZDHC MRSL
Volatile Organic Compounds	Various List of AFIRM	<1.0 mg/kg each	Test methods are specified in AFIRM RSL

Chemical Substances	CAS	MWM Limit/Requirement	Test method
REACH SVHC and Substances defined as hazardous due to intrinsic properties Criteria for hazardous as defined in REACH Article 57.	Various	<0.1% (w/w). If specified elsewhere in MWM Chemical Restrictions, stricter limits apply.	
Per- and polyfluorinated compounds (PFC/PFAS)	Various List of AFIRM and ZDHC MRSL	Usage ban	Test methods are specified in AFIRM RSL and ZDHC MRSL
Total organic fluorine	/	<50 mg/kg (*)	Test methods are specified in AFIRM RSL
Chlorinated Phenols: PCP, its salts, and esters, TeCP, TriCPs Other chlorinated Phenols	List of AFIRM	0.05 mg/kg each (*) 0.5 mg/kg each (*)	LFCB B 82.02-08; GB/T 18414.1 or GB/T 18414.2
Pesticides	List of AFIRM	≤0,2 each (*)	Test methods are specified in AFIRM RSL

(\*) = 2024 revised limits

## 9. Physical Test Restrictions

Physical test description	TEST METHOD	MWM Limit/Requirement	
pH	ISO 3071	4,0 - 7,5	
Composition	Regulation EU 1007/2001	Pure fiber: 0%; blend: $\pm 3\%$	
Color fastness to:		Dark colors	Light colors
Light	ISO 105 - B02	5	4
Water	ISO 105 - E01	3	3.5
Perspiration	ISO 105 - E04	3	3.5
Dry-cleaning	ISO105 - D01	3	3.5
Rubbing	ISO 105 - X12	3	3.5
Saliva	ISO 20701	4	4