

# Nudie Jeans' Restricted Substance List (RSL)

December 2014 Version

Nudie Jeans wants to contribute to a sustainable development. We do this by striving to reduce the impact on the environment as far as is technically, economically and practically possible within the scope of our business. Nudie Jeans' environmental concerns are in accordance with current national legislation and EU legislation, but also goes beyond this by endorsing voluntary schemes and by choosing sustainable materials and production processes where this is possible.

## **Nudie Jeans chemical requirements – for products as well as manufacturing processes**

We require that all our suppliers, whether production is placed outside or inside Europe, follow the chemical legislation within the European Union. We require our suppliers to be continuously updated and comply with following legislations<sup>1</sup>:

- REACH regulation EC No 1907/2006 including REACH Annex XVII, REACH Annex XIV and REACH Candidate list.
- Stockholm Convention on Persistent Organic Pollutants via (EC) 850/2004 (POPs).
- Biocidal Product Regulation EU No 528/2012.
- EU Directive 94/62/EC for packaging materials.

To meet the high environmental ambition of Nudie Jeans, we have stricter requirements on both chemicals that can remain in the end product (*product related chemicals*), but also on chemicals used in the production (*process chemicals*). These requirements are in line with best practices within the textile industry and legislation in our sales countries outside EU. In case that the legal or voluntary requirements referred to in this document differ, the stricter version should be applied.

Furthermore, no substances from the Candidate List of Substances of Very High Concern for Authorisation (REACH Candidate list) published by the European Chemicals Agency (ECHA) should be used in the production or present in the products produced for Nudie Jeans.

In order to limit the use of process chemicals, Nudie Jeans closely follow the collaborative work of apparel and footwear brands and retailers committed to the initiative *Zero Discharge of Hazardous Substances* (ZDHS). To facilitate the phase out of hazardous chemicals in production, the ZDHS initiative has developed a *Manufacturing Restricted Substances List* (MRSL) listing substances that should not be used in the production. Nudie Jeans require that all our suppliers follow the Manufacturing Restricted Substances List (MRSL) developed by the ZDHS. The MRSL is available online here:  
<http://roadmaptozero.com/df.php?file=pdf/MRSL.pdf>.

To guide Nudie Jeans' suppliers in the work with our chemical restrictions, we have listed the most relevant chemicals under headlines showing in what material or processes this might be relevant. The below guide also clearly show where Nudie Jeans has stricter limits than the legal requirements. You will clearly see the extra requirements that we have in addition to legislation marked red.

## **Communicating Nudie Jeans' RSL to all relevant suppliers**

Nudie Jeans requires that our manufacturers make sure that their suppliers and subcontractors are informed and comply with the Nudie Jeans RSL. To make sure this is implemented, suppliers of materials and trimmings as well as subcontractors should sign this RSL. For fabric and trimmings sourced or nominated by Nudie Jeans, Nudie Jeans will be responsible to make sure they have signed the RSL. If not sure if a supplier has signed the Nudie Jeans RSL, contact the Nudie Jeans CSR department through [csr@nudiejeans.com](mailto:csr@nudiejeans.com).

---

<sup>1</sup> For further information regarding legal limits and test methods, see the online Restricted Substances List listing relevant legal limits provided by the American Apparel & Footwear Association (AAFA) (available here: <https://www.wewear.org/industry-resources/restricted-substances-list/>).

## Guidance to Nudie Jeans restricted substance list (RSL) listing chemical restriction values stricter than legal requirements

Material/design/functionality/process/targeted chemicals	Nudie Jeans limit value	European legal limit <sup>2</sup>
<b>Dyed cellulosic fibers such as cotton, hemp, flux, viscose etc.</b>		
Banned arylamines derived from azo dyes	20 ppm <sup>3</sup>	30 ppm
Carcinogenic, mutagenic or reproduction toxic (CMR) dyestuffs and pigments	20 ppm	1000 ppm <sup>4</sup>
<b>Dyed polyester, polyamide, acetate, triacetate, chlorofibres</b>		
Banned arylamines derived from azo dyes	20 ppm	30 ppm
CMR dyestuffs and pigments	20 ppm	1000 ppm <sup>3</sup>
Allergenic disperse dyes and Navy Blue	50 ppm <sup>5</sup>	1000 ppm (Navy Blue)
<b>Protein fibers and manmade materials such as leather, wool, silk and chromium dyed polyamide</b>		
Banned arylamines derived from azo dyes	20 ppm	30 ppm
CMR dyestuffs and pigments	20 ppm	1000 ppm <sup>3</sup>
Allergenic disperse dyes and Navy Blue	50 ppm <sup>4</sup>	1000 ppm (Navy Blue)
Chromium VI (Cr <sup>+6</sup> )	3 ppm	3 ppm
<b>Metal (incl. enamel coated) metal accessories</b>		
Nickel	0,2 µg/cm <sup>2</sup> and week	0,2 µg/cm <sup>2</sup> and week <sup>6</sup>
Lead and lead salts	90 ppm (surface) <sup>7</sup> 100 ppm (content) <sup>8</sup>	1000 ppm lead salts 500 ppm lead
Cadmium salts	75 ppm <sup>9</sup>	100 ppm
<b>PVC, Polyurethane (PU) or rubber coatings, prints and accessories<sup>10</sup></b>		
PVC	Banned <sup>11</sup>	
Phthalate esters	100 ppm <sup>12</sup>	1000 ppm
Short chain chloro paraffins	Banned	Banned <sup>13</sup>
Lead salts	90 ppm <sup>6</sup>	1000 ppm
Cadmium salts	75 ppm <sup>6</sup>	100 ppm
Dialkyltin (DOT, DBT)		1000 ppm

<sup>2</sup> According to EU regulations: Annex XIV, Annex XVII, POP Regulation and Biocide Regulation.

<sup>3</sup> According to Chinese regulations.

<sup>4</sup> According to REACH and CLP regulation.

<sup>5</sup> According to Oeko-Tex Standard 100.

<sup>6</sup> This requirement is on piercing. On products in direct contact with the skin the requirement is 0,5 µg/cm<sup>2</sup> and week.

<sup>7</sup> According US federal regulation.

<sup>8</sup> According Danish regulation.

<sup>9</sup> According US regulation.

<sup>10</sup> Only phthalate esters relevant for plastisol prints.

<sup>11</sup> Nudie Jeans requirement. Quick test possible according to Beilstein method.

<sup>12</sup> 100 ppm per phthalate on phthalates on the Candidate list (Annex XIV).

<sup>13</sup> According to European POP Regulation.

Material/design/functionality/process/targeted chemicals	Nudie Jeans limit value	European legal limit <sup>2</sup>
<b>Oil/dirt/water repellence, breathability, chemical shrink, wrinkle or antistatic treatment<sup>14</sup></b>		
Formaldehyde	<b>75 ppm<sup>15</sup></b>	
PFOA its related substances and higher homologues (>C8)	<b>1 µg/m<sup>2,16</sup></b>	1000 ppm
PFOS and related substances	<b>Banned<sup>17</sup></b>	1 µg/m <sup>2</sup>
DMAC, Dimethylformamide (DMFa) <sup>18</sup>	1000 ppm	1000 ppm
<b>Fire protection treatments</b>		
Halogenated flame retardants	<b>Banned<sup>19</sup></b>	1000 ppm
<b>Antibacterial treatment</b>		
Trialkyltin compounds (TBT, TPhT, TCyHT, TOT, TpT)	<b>Banned<sup>20</sup></b>	1000 ppm
Triclosan	<b>Banned<sup>21</sup></b>	
Nanosilver (Colloidal silver)	<b>Banned<sup>21</sup></b>	
<b>Storage and transport</b>		
Allergenic fungicides (Dimethylfumarate - DMFu)	<b>0,1 ppm</b>	0,1 ppm
Fungicides (PCP, TeCP)	<b>Banned<sup>22</sup></b>	1000 ppm
Insecticides (Permethrin etc.)	<b>Banned<sup>21</sup></b>	
Fumigants (Methyl Bromide, Phosphine and Hydrogen cyanide.)	<b>Banned<sup>23</sup></b>	
<b>Process chemicals: Washing, lubricants in spinning, dispersive agents in industrial chemicals etc.</b>		
Alkylphenoxyoxylates (APEO) such as nonylphenoxyoxylates, (NPEO) and oktylphenoxyoxylates, (OPEO).	<b>Banned<sup>24</sup></b>	1000 ppm
<b>Pigment prints, plastic or rubber accessories</b>		
Volatile Organic compounds (VOC)	<b>0,5 ppm<sup>22</sup></b>	1000 ppm <sup>25</sup>
Alkylphenoxyoxylates (APEO) such as nonylphenoxyoxylates, (NPEO) and oktylphenoxyoxylates, (OPEO).	<b>Banned<sup>24</sup></b>	1000 ppm
<b>Impurities produced during incomplete combustion of organic material in plastic and rubber materials</b>		
Polycyclic aromatic hydrocarbons (PAH)	<b>0,5 ppm</b>	0,5 ppm <sup>26</sup>
<b>pH</b>		
<b>Textiles</b>	<b>pH 4.0 – 8.5<sup>27</sup></b>	
<b>Leather</b>	<b>pH 3.5 – 7.0</b>	

<sup>14</sup> For shrink and wrinkle resistance, only formaldehyde is relevant.

<sup>15</sup> According to Oeko-Tex standard 100, Japanese Law and Chinese regulations. Requirements on textiles for infants: Not Detectable.

<sup>16</sup> According to Norwegian legislation and ZDHC.

<sup>17</sup> According to Oeko-Tex Standard 100 and ZDHC requirement.

<sup>18</sup> 1000ppm is max allowed content in the coating, not the whole product

<sup>19</sup> According to Oeko-Tex standard 100 and also POP regulation for parts of the flame retardants.

<sup>20</sup> According to Oeko-Tex Standard 100

<sup>21</sup> Not included in the Biocide directive. (No one has applied for usage, therefore not approved.)

<sup>22</sup> According to Oeko-Tex Standard 100

<sup>23</sup> According to IMO and their recommendations on the safe use of pesticides in ships applicable to the fumigation of cargo holds (2008).

<sup>24</sup> Should not be used in processes according to ZDHC. Commercial limit is 100 ppm

<sup>25</sup> For 8 specified chlorinated solvents in Annex XVII

<sup>26</sup> Requirement is per each PAH. Restrictions regards to articles intended for children, other articles limit value 1 mg/kg

<sup>27</sup> According to Chinese regulations.

# Nudie Jeans' Restricted Substance List (RSL) Questionnaire

**Please send back to chemical responsible person at Nudie Jeans:**

CSR Manager  
Nudie Jeans Co.  
Västra Hamngatan 6  
411 17 GÖTEBORG  
Sweden

Phone +46 706 47 36 74  
Fax: +46 31 139753  
[csr@nudiejeans.com](mailto:csr@nudiejeans.com)

## Questions to be answered by the supplier

1. Do you have a contact person that is in charge of all issues concerning regulation and chemicals?

If yes, please give the full contact data of your contact:

2. Are there any REACH regulated substances from the Candidate list and annex XIV of your knowledge in articles that we buy from you?
  3. Are there any REACH restricted substances from annex XVII of your knowledge in articles that we buy from you?
  4. Are there any restricted substances in the POPs regulation of your knowledge in articles that we buy from you?
  5. Are there any biocidal substances in articles that we buy from you?
  6. Are any substances listed in the ZDHC *Manufacturing Restricted Substances List* used in your production processes?
  7. If you answered yes to question 2-6, please list these substances by name and CAS RN.
-

# Nudie Jeans' Restricted Substance List (RSL) undertaking for nominated suppliers

## CONFIRMATION

We, a nominated supplier to Nudie Jeans, hereby confirm that we fully understand and will from this time onwards comply with the Nudie Jeans RSL to all orders made for placed by Nudie Jeans production/products.

We understand that we are responsible for communicating the Nudie Jeans RSL in our supply chain when Nudie Jeans has not nominated the supplier or sourced the material.

In case we, as a nominated supplier, cannot follow this Nudie Jeans RSL, we will contact Nudie Jeans immediately.

.....  
Company name

.....  
Authorized signature

.....  
Place and date

---