

Vestas Material restricted list			Document ID: 0064-0319
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Version history

Version No.	Date	Description of Changes
00	2017.01.30	New document, information comes from the old Version 6. Vestas Chemical and Material Blacklist

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1. Purpose

The purpose of this document is to provide information about which products Vestas has restricted the use of based on regional or local legislation, and which products Vestas restricts the use of due to their special hazard classification. The overall aim of the list is to protect employees and ensure the future production by limiting the use of products which are expected to be prohibited by authorities in the future.

Vestas Material restricted list contains a list of classifications which make the product restricted if the product overall is classified as such. The list also contains some specific compounds that have either been an issue in the industry previously or are expected to be prohibited in the future. Once a product is restricted according to this list, the Supplier is only allowed to use this in Product delivered to Vestas, if Vestas has provided the Supplier with a specific dispensation. The dispensation must contain an action plan for either finding alternative products and an evaluation of why no alternative product is available for the specific purpose. When the dispensation has been filled out, the dispensation must be signed by Vestas.

2. Area of Validity

The Material Restricted List is applicable for chemicals and materials used in Vestas products, for testing, maintaining or servicing Vestas' products, in Vestas' production, in Vestas' buildings as well as in all business units of Vestas Wind Systems.

3. Coming into force

This Material Restricted List is coming into force with the 7th version of the Vestas Blacklist, since the information in the Material restricted list was previously located in the Vestas Chemical and Material Blacklist. This Material Restricted List is valid for all newly introduced chemicals and materials that are not already in use in Vestas.

Materials already in use in Vestas that are restricted according to the restricted list must be re-evaluated and, if necessary, have an action plan created for their continued use. This action plan must be prepared by 1st of September 2017. Restricted Materials must be evaluated for the possibility of using an alternative product.

Evaluations and Action Plans for the restricted product must be prepared by 1st of September 2017.

4. Legal considerations

Even if a product is not prohibited in a country, there can still be a lot of restrictions on its use. For example, Carcinogenic, Mutagenic and Reproductive toxic substances, also known as CMR compounds are not illegal to use in countries such as Spain, Denmark, and China. However, there are several restrictions and requirements for using these substances. Examples of these are special requirements for storage of the materials under lock, special training or requirements of employees and special permits for the factory or location. It is therefore important to investigate the specific legal requirements in the specific countries where the product is to be used.

5. Vestas Material Restricted list

The Vestas Material restricted list contains two tables. The first contains specific overall hazards classifications which makes a product restricted according to the list. The second table contains specific substances with very high focus from the authorities for being phased out and is likely to be prohibited in the future and these are therefore also restricted.

Table 1: Hazard statement and hazard category (GHS/CLP)		
Health hazards		
Mutagenic	H340	May cause genetic defects
	H341	Suspected of causing genetic defects
Carcinogenic	H350	May cause cancer
	H351	Suspected of causing cancer
		(ACGIH A1 and A2), IARC (Group 1, 2A and 2B)
Reproductive toxic:	H360	May damage fertility or the unborn child
	H361	Suspected of damaging fertility or the unborn child
	H362	May cause harm to breast-fed children
Toxic:	H300	Fatal if swallowed
	H301	Toxic if swallowed
	H310	Fatal in contact with skin
	H311	Toxic in contact with skin
	H330	Fatal if inhaled
	H331	Toxic if inhaled
	H370	Causes damage to organs
	H372	Causes damage to organs through prolonged or repeated exposure
Sensitising	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Physical hazards		
Explosives	Several	
Environmental hazards		
Aquatic:	H400	Very toxic to aquatic life
	H410	Very toxic to aquatic life with long-lasting effects
Ozone depleting:	EUH059	Hazardous to the ozone layer, superseded by GHS Class 5.1 in the second adaptation to technical progress of CLP.

Table 2: Substances			
Group	Substance	CAS-no.	Remarks/ reference
REACH Candidate list	Several substances - please see the reference for a list of the current SVHC list.	-	[Ref 3] http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp
Greenhouse gas	SF6 (Sulphur hexafluoride) (Insulator in switch gear).	2551-62-4	[Ref 6/7]
Composites	Styrene and polyester (Monomeric) The restriction does not apply to materials used for maintenance and repair of old wind turbines.	Several options	Monomeric Styrene is used for manufacturing some fiberglass reinforced parts and in the production of styrene containing polymers (for example certain rubber parts, vacuum formed ABS). However, in the manufactured product, monomeric styrene is converted to polymeric styrene and the finished products are not subject to the restriction.

6. Dispensations

If a product is classified as hazardous and has the overall classification as specified in the Vestas Material restricted list, then a dispensation must be filled out by Vestas before the product is purchased. The Supplier must deliver a SDS and information needed for Vestas to assess the HSE risks associated with the products.

APPENDIX 1: Version history

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00	2017.01.30	New document, information comes from the old Version 6. Vestas Chemical and Material Blacklist

APPENDIX 2: Definitions

ACGIH	American Conference of Governmental Industrial Hygienists
IARC	International Agency for Research on Cancer
QSE	Quality, Safety and environment