

This document originates from criteria 031 Furniture and fitments, version 5.3.
 It is used in conjunction with an application for a license for the Nordic Swan Ecolabelling of furniture and fitments.
 To be used by furniture manufacturers and subcontractors to declare chemicals based on documentation from manufacturers. Should new knowledge arise, the undersigned is obliged to submit an updated declaration to Nordic Ecolabelling.
 Impurities in chemical products are permitted in concentrations less than 1000 ppm (0.1000% by weight, 1000 mg/kg).
 Examples of impurities are residues of the following: Residues or reagents incl. residues of monomers, catalysts, by-products, scavengers, and detergents for production equipment and carry-over from other or previous production lines.

Appendix 6a) – Requirements that must be fulfilled for chemical product used for surface treatment of wood, wood-based panels and laminate

This appendix contains a summary of the requirements that chemical products used for surface treatment of wood, wood-based panels and laminate must fulfil.

If any of the questions below are answered “yes” and there is no relevant exemption the chemical product does not meet the requirements. This means that the chemical product cannot be used in surface treatment systems for Nordic Swan Ecolabelled furniture/fitments. Beside the requirements in this appendix the total amount of applied VOC must also meet requirement O69.

Name of chemical product: EML085-7001 - Lakas / lacquer

Function of chemical product: Water borne coating

Ingoing substances and impurities are defined as follows:

- *Ingoing substances: All substances in the chemical product, including additives (e.g. preservatives and stabilisers) in the raw materials. Substances known to be released from ingoing substances (e.g. formaldehyde, arylamine, in-situ generated preservatives) are also considered as ingoing substances.*
- *Impurities: Residuals, pollutants, contaminants etc. from production, incl. production of raw materials that remain in the raw material or in chemical product in concentrations less than 1000 ppm (0,1000 w-%, 1000 mg/kg) in the chemical product. Examples of impurities are residues of the following: residues or reagents incl. residues of monomers, catalysts, by-products, scavengers, and detergents for production equipment and carry-over from other or previous production lines.*

Requirement O63: Is the chemical product classified according to any of the classifications below?		
<i>Exemption apply to UV-curing surface treatment products classified as environmentally hazardous if requirement O64 is met.</i>		
Hazardous to the aquatic environment		
H400 – Aquatic Acute 1	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H410 – Aquatic Chronic 1	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H411 – Aquatic Chronic 2	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

H420 – Ozone	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Acute toxicity				
H300 – Acute Tox 1 or 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H310 – Acute Tox 1 or 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H330 – Acute Tox 1 or 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H301 – Acute Tox 3	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H311 – Acute Tox 3	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H331 – Acute Tox 3	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Specific target organ toxicity with single or repeated exposure				
H370 – STOT SE 1	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H372 – STOT RE 1	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Respiratory sensitisation				
H334 – Resp. Sens. 1, 1A or 1B	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Carcinogenic <i>Including all combinations of stated exposure route and stated specific effect.</i>				
H350 – Carc. 1A or 1B	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H351 – Carc. 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Germ cell mutagenic <i>Including all combinations of stated exposure route and stated specific effect.</i>				
H340 – Muta. 1A or 1B	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H341 – Muta. 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
Toxic for reproduction <i>Including all combinations of stated exposure route and stated specific effect.</i>				
H360 – Repr. 1A or 1B	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H361 – Repr. 2	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
H362 – Lact.	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>

If yes to any of the questions above, state the CAS no. (where possible), chemical name and level (in ppm, % by weight or mg/kg) for the ingoing substance/substances which is causing the classification of the chemical product.

Requirement O64: UV curing surface treatment system

UV curing surface treatment products must be applied to the material during a controlled closed process where no discharge to recipient takes place. Spills and residual waste (e.g. residues from cleaning) must be collected in containers that are approved for hazardous waste and handled by a waste contractor.

Please describe the UV curing surface treatment system and how waste and residual waste are handled, including information about who receives the residual waste from the performer of the surface treatment:

Requirement O65: Does the chemical product contain ingoing substances which are classified according to any of the classifications below?		
<i>Exemption applies to:</i>		
<ul style="list-style-type: none"> • photo initiators classified H351, H341 or H361 • titanium dioxide (CAS number 13463-67-7) classified H351 • 1,1,1-Trimethylolpropane (TMP, CAS number 77-99-6) classified H361 • mequinol (CAS number 150-76-5) classified H361 		
<i>The hardener in 2-component UV products can be exempted from the requirement if the following is met: it must be documented that the workers are not exposed to the components, e.g. by using safety equipment when mixing or that the mixing takes place automatically without exposure of the workers and that the application of the finished two-component system is done in a closed system.</i>		
Carcinogenic		
<i>Including all combinations of stated exposure route and stated specific effect.</i>		
H350 – Carc. 1A or 1B	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H351 – Carc. 2	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Germ cell mutagenic		
<i>Including all combinations of stated exposure route and stated specific effect.</i>		
H340 – Muta. 1A or 1B	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H341 – Muta. 2	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Toxic for reproduction		
<i>Including all combinations of stated exposure route and stated specific effect.</i>		
H360 – Repr. 1A or 1B	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H361 – Repr. 2	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
H362 – Lact.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

If yes to any of the questions above, state the CAS no. (where possible), chemical name and level (in ppm, % by weight or mg/kg). Also state whether the substance is an impurity or purposely added.

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Requirement O66: Does the chemical product contain any of the following substances?		
Substances on the Candidate List (The Candidate List is available on the ECHA website: http://echa.europa.eu/candidate-list-table)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Substances that have been evaluated in the EU to be PBT (Persistent, Bioaccumulative and Toxic) or vPvB (very Persistent and very Bioaccumulative) in accordance with the criteria in Annex XIII of REACH	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Substances on the EU member state initiative "Endocrine Disruptor Lists", List I and III. See the following links: https://edlists.org/the-ed-lists/list-i-substances-identified-as-endocrine-disruptors-by-the-eu and https://edlists.org/the-ed-lists/list-iii-substances-identified-as-endocrine-disruptors-by-participating-national-authorities	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
The following substances on the EU member state initiative "Endocrine Disruptor Lists", List II:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
<ul style="list-style-type: none"> • (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one / 4-methylbenzylidene camphor / 4-MBC (CAS No. 36861-47-9) • 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane / bis-[4-(2,3-epoxypropoxy)phenyl]propane / bisphenol A diglycidyl ether (CAS No. 1675-54-3) 		

<ul style="list-style-type: none"> • 4-tert-butylphenol / p-tert butylphenol (CAS No. 98-54-4) • Benzophenone-1 (BP-1) / 2,4-dihydroxybenzophenone (CAS No. 131-56-6) • Benzophenone-2 / 2,2',4,4'-tetrahydroxybenzophenone / BP-2 (CAS No. 131-55-5) • Butylparaben / butyl 4-hydroxybenzoate / n-butyl p-hydroxybenzoate (CAS No. 94-26-8) • Carbon disulphide (CAS No. 75-15-0) • Deltamethrin / α-cyano-3-phenoxybenzyl [1R-[1α(S*),3α]]-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (CAS No. 52918-63-5) • Dicyclohexyl phthalate (DCHP) (CAS No. 84-61-7) • Diuron (CAS No. 330-54-1) • Ethyl 4-hydroxybenzoate / ethylparaben (CAS No. 120-47-8) • Homosalate / homomenthylsalicylate / 3,3,5-trimethyl-cyclohexyl salicylate (CAS No. 118-56-9) • Methylparaben / methyl 4-hydroxybenzoate / methyl p-hydroxybenzoate (CAS No. 99-76-3) • Oxybenzone (BP-3) / benzophenone-3 / 2-hydroxy-4-methoxybenzophenone (CAS No. 131-57-7) • Propylparaben / propyl 4-hydroxybenzoate / n-propyl p-hydroxybenzoate (CAS No. 94-13-3) • Resorcinol / 1,3-benzenediol (CAS No.108-46-3) • Tert-butyl methyl ether / methyl tertiary butyl ether (MTBE, CAS No. 1634-04-4) • Tert-butyl-4-methoxyphenol (BHA) / 2- and 3-tert-butyl-4-hydroxyanisole / butylated hydroxyanisole / tert-butyl-4-hydroxyanisole (CAS No. 25013-16-5) • Ziram (CAS No. 137-30-4)

On 1 October 2022, the group of substances from List II above is extended to cover the full List II.

See the following link:

List II: <https://edlists.org/the-ed-lists/list-ii-substances-under-eu-investigation-endocrine-disruption>

A substance which is transferred to one of the corresponding sub lists called "Substances no longer on list", and no longer appears on any of List I-III, is no longer excluded. The exception is those substances on sub list II which were evaluated under a regulation or directive which doesn't have provisions for identifying EDs (e.g., the Cosmetics Regulation, etc.). For those substances, ED properties may still have been confirmed or suspected. Nordic Ecolabelling will evaluate the circumstances case-by-case, based on the background information indicated on sub list II.

Halogenated organic compounds	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Exemptions apply to:		
<ul style="list-style-type: none"> • Bronopol (CAS No. 52-51-7) may be present in the chemical product at a level of not more than 0.05% by weight • Mixture (3:1) of CMIT/MIT (5 chloro-2-methyl-4-isothiazolin-3-one CAS No. 247-500-7; 2-methyl-4-isothiazolin-3-one CAS No. 220-239-6) may be present in the chemical product at a level of not more than 0.0015% by weight • IPBC (Iodopropynyl butylcarbamate) may be present in the chemical product at a level of not more than 0.20% by weight • Halogenated organic pigments that comply with the Council of Europe recommendation "Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact with food", point 2.5 • Epoxy acrylate used in UV curing coatings 		
Isothiazolinones at a level of more than 0.05% by weight in the chemical product	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Butylhydroxytoluene (BHT, CAS No. 128-37-0)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Aziridine and polyaziridines	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Exemption is given for aziridine/polyaziridine if the substance is not classified as carcinogenic, mutagenic or toxic for reproduction from any manufacturer or in ECHA.		
Bisphenol A, S and F	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Bisphenol A used in the production of epoxy acrylate is not covered by the requirement.		
Alkylphenols, alkylphenol ethoxylates and other alkylphenol derivates	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

<i>Alkylphenol derivatives are defined as substances that release alkylphenols when they break down</i>			
Phthalates	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Pigments and additives based on lead, tin, cadmium, chromium VI and mercury, and their compounds	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Volatile aromatic hydrocarbons (VAH) at a level of more than 1% by weight in the chemical product	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>

If yes to any of the questions above, state the CAS no. (where possible), chemical name and level (in ppm, % by weight or mg/kg). Also state whether the substance is an impurity or purposely added.

<p>Requirement O67: Does the chemical product contain any nanomaterials according to definition adopted by the European Commission on 18 October 2011 (2011/696/EU)?</p> <p><i>Definition: A nanomaterial is a natural, incidental or purposely manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50% or more of the particles in number or size distribution, one or more external dimensions is in the size range 1–100 nm.</i></p> <p><i>Exemptions are made for:</i></p> <ul style="list-style-type: none"> • <i>Pigments*</i> • <i>Naturally occurring inorganic fillers**</i> • <i>Synthetic amorphous silica***</i> <p><i>* This exception does not include pigments added for purposes other than colour.</i></p> <p><i>** This applies to fillers covered by Annex V item 7 of REACH</i></p> <p><i>*** This applies to unmodified synthetic amorphous silica.</i></p>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
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If yes, state which type of nanomaterial and if it is an impurity or purposely added.

<p>Requirement O68: Does the chemical product contain free formaldehyde?</p> <p><i>The content of free formaldehyde in each individual chemical product used for surface treatment must not exceed 0.2% by weight (2000 ppm).</i></p>	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
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If yes, state the % by weight of formaldehyde: _____

<p>Does the chemical product contain VOC?</p> <p><i>VOC are defined as any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101.3 kPa (the same definition that appears in the VOC Directive 2004/42/EC).</i></p>	Ja	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
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This information will be used to calculate the total amount of VOC or total applied amount of VOC in the surface treatment system.

If yes, state the % by weight of VOC: 7,8w%

Please attach:

Safety data sheet for the chemical product(s) in compliance with current European legislation (Annex II of REACH, Regulation (EC) No. 1907/2006).

Place and date: Berlin, October 30, 2023	Company name: Sherwin Williams
Responsible person: Natalia Fernández	Signature of responsible person: <i>Natalia Fernández</i>
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