

► **SPERRLISTE / SCHWARZE LISTE CHEMIKALIEN & MATERIALIEN**

RESTRICTED LIST / CHEMICAL & MATERIAL BLACKLIST

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|      |            |      |   |
|      |            |      |   |
|      |            |      |   |

## 1 Sperrliste (Restricted list)

Die Sperrliste für Material enthält zwei Tabellen. Die erste enthält spezifische Gesamtgefährdungsklassifizierungen, wodurch ein Produkt gemäß der Liste eingeschränkt wird. Die zweite Tabelle enthält spezifische Substanzen, die von den Behörden sehr stark darauf ausgerichtet sind, schrittweise aus dem Verkehr gezogen zu werden, und die wahrscheinlich in Zukunft verboten werden und daher ebenfalls eingeschränkt sind.

*The 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             |         |  |
|----------------------------|---------|--|
| <b>Mutagenic:</b>          | H340    | May cause genetic defects  |
|                            | H341    | Suspected of causing genetic defects   |
| <b>Carcinogenic:</b>       | H350    | May cause cancer   |
|                            | H351    | Suspected of causing cancer  |
| <b>Reproductive toxic:</b> | 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  |
| <b>Toxic:</b>              | 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   |
| <b>Sensitising:</b>        | H334    | May cause allergy or asthma symptoms or breathing difficulties if inhaled  |
| Physical hazards           |         |  |
| <b>Explosives:</b>         | Several |  |
| Environmental hazards      |         |  |
| <b>Aquatic:</b>            | H400    | Very toxic to aquatic life   |
|                            | H410    | Very toxic to aquatic life with long-lasting effects   |
| <b>Ozone depleting:</b>    | 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  |
|-----------------------------|--|-----------------|--|
| <b>REACH Candidate list</b> | Several substances - please see the reference for a list of the current SVHC list. | -               | [Ref 3] <a href="http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp">http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp</a>  |
| <b>Greenhouse gas</b>       | SF6 (Sulphur hexafluoride) (Insulator in switch gear).                             | 2551-62-4       | [Ref 6/7]  |
| <b>Composites</b>           | Styrene and polyester (Monomeric)  | 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. |

## 2 Schwarze Liste Chemikalien & Materialien (Chemical & Material Blacklist)

### 2.1 Zweck (Purpose)

Die "Schwarze Liste Chemikalien & Materialien" enthält eine Liste von Substanzen und Mischungen, deren Verwendung in Übereinstimmung mit globalen, regionalen oder lokalen Gesetzen/Vorschriften verboten ist. Der allgemeine Zweck der Blacklist besteht darin, sicherzustellen, dass HAWART keine illegalen Produkte und Substanzen verwendet. Die Blacklist für Chemikalien und Materialien umfasst die in den folgenden Gesetzen festgelegten Anforderungen:

*The "Chemical & Material Blacklist" contains a list of substances and mixtures which are prohibited to use in accordance with global, regional, or local legislation/regulations. The overall purpose of the Blacklist is to ensure that HAWART do not use illegal products and substances. The Chemical & Material Blacklist is incorporating the requirements set out in the following legislation:*

|    |  |
|----|--|
| 1  | The Danish Ministry of Environment and Energy's regulation no. 1082 of 13 September 2007 on prohibited import and sale of plumbiferous products.   |
| 2  | The European Parliament and Council's regulation 2008/0240 (COD) of 27. May 2011 on limitation of the use of certain harmful substances in electric and electronic equipment. Also known as the RoHS Directive.  |
| 3  | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. Including the REACH restricted list. |
| 4  | STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS (POPs,), 22. May 2001 (4th meeting held in Genova, 4-8th May 2009)   |
| 5  | ROTTERDAM CONVENTION, PIC CIRCULAR XXV – June 2007   |
| 6  | The Montreal Protocol on Substances that Deplete the Ozone Layer   |
| 7  | Kyoto Protocol of 1992 first and second period   |
| 8  | European parliament and council's regulation 67/548/EEC Classification, packaging and labelling of hazardous substances.   |
| 9  | European parliament and council's regulation 1272/2008, CLP Classification   |
| 10 | China restricted ozone-depleting substance list (1st batch) (Revised In 1998)  |

Der allgemeine Grenzwert für die spezifischen Substanzen beträgt 0,1%, wenn nichts anderes angegeben wird. Das bedeutet, wenn ein Produkt weniger als 0,1% des Inhaltsstoffes enthält, gilt es nicht als verboten, es sei denn, die spezifische anwendbare örtliche Gesetzgebung sieht etwas anderes vor.

*The general cut-off limit for the specific substances are 0.1% if nothing else is stated. This means that if a product contains less than 0.1% of the ingredient, it is not considered prohibited unless the specific applicable local legislation states otherwise.*

## 2.2 Dokumentation zur Einhaltung (Documentation for compliance)

Auf Anfrage von HAWART muss der Lieferant eine vollständige Klärung bezüglich der betroffenen Verbindungen vornehmen, unabhängig davon, ob ein SDB (Sicherheitsdatenblatt) erforderlich ist oder nicht.

Ist der Lieferant nicht in der Lage, eine vollständige Materialdeklaration zu liefern, muss der Lieferant eine Erklärung zur Erfüllung der Schwarzen Liste Chemikalien & Materialien unterzeichnen.

*Upon HAWART's request Supplier shall provide full clarification on the compounds involved, irrespective of whether a SDS is required or not.*

*If the supplier is not able to deliver a full material declaration, the supplier must sign a statement of fulfillment to the Chemical & Material Blacklist.*

## 2.3 Schwarze Liste Chemikalien & Materialien (Chemical & Material Blacklist)

Alle Komponenten/Inhaltsstoffe, die in der Schwarzen Liste Chemikalien & Materialien aufgeführt sind, sind nach spezifischer Gesetzgebung verboten. Das bedeutet, dass die spezifische Gesetzgebung nicht die Verwendung dieser Stoffe in spezifischen Anwendungen erlauben.

*All the components/Ingredients which are listed in the Chemical and Material Blacklist are prohibited according to specific legislation. This means that the specific legislation does not allow the use of these substances in specific applications.*

**Table 3: List of prohibited chemical compounds/ingredients**

| Substance / CAS / Reference  | Conditions of prohibition  | The prohibition covers |
|--|--|------------------------|
| PCB if concentration is greater than 0.005 w/w% (CAS 1336-36-3)  |  | EU                     |
| Polychlorinated terphenyls (PCTs), (CAS several numbers (e.g. CAS 61788-33-8, 12642-23-8), [Ref 3/4/5])                  | Shall not be placed on the market or used as substances in mixtures, including waste oils or in equipment, in concentrations greater than 50 mg/kg (0.005 % by weight).  | EU                     |
| Chloroethene (vinyl chloride), (CAS No 75-01-4) [Ref 3]  | Shall not be used as propellant in aerosols for any use. Aerosols dispensers containing the substance as propellant shall not be placed on the market.   | EU                     |
| Chloroform, (CAS 67-66-3), [Ref 3]   | Shall not be placed on the market or used as substances, as constituents of other substances, or in mixtures in concentrations equal to or greater than 0.1% by weight, where the substance or mixture is intended for the application specified in the legislation. | EU                     |
| 1,1,2-trichloroethane, (CAS 79-00-5), [Ref 3]  |  |                        |
| 1,1,2,2-tetrachloroethane, (CAS 79-34-5), [Ref 3]  |  |                        |
| 1,1,1,2-tetrachloroethane, (CAS 630-20-6), [Ref 3]   |  |                        |
| Pentachloroethane, (CAS 76-01-7), [Ref 3]  |  |                        |
| 1,1-dichloroethylene, (CAS 75-35-4), [Ref 3]   |  |                        |
| Tetrachloromethane, (CAS 56-23-5), [Ref 6]   | Shall not be placed on the market.   | EU                     |
| 1,1,1-trichloroethane, (CAS 71-55-6), [Ref 6]  | Shall not be placed on the market.   | EU                     |
| Hexachlorethan, (CAS 67-72-1), [Ref 3]   | Shall not be placed on the market, or used, as substance or in mixtures, where the substance or mixture is intended for the manufacturing or processing of non-ferrous metals.   | EU                     |
| Alkanes, C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) for processing of metals, (CAS 85535-84-8), [Ref 3] | Shall not be placed on the market, or used as substances, or as constituents of other substances or in mixtures in concentrations greater than 1% by weight, where the substance or mixture is intended for the purpose specified in the legislation.                | EU                     |
| Monomethyl-tetrachlorodiphenylmethan, (CAS 76253-60-6), [Ref 3]  | Shall not be placed on the market, or used as a substance or in mixtures. Articles containing the substance shall not be placed on   | EU                     |

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| Substance / CAS / Reference   | Conditions of prohibition   | The prohibition covers |
|---|---|------------------------|
| Monomethyl-dichloro-diphenyl methane (No CAS Number. (EC. No: 400-140-6), [Ref 3])  | the market. Shall not be placed on the market or used as a substance, as a constituent of other substances, or in mixtures in concentrations equal to or greater than 0.1% by weight (w/w%).      |                        |
| Monomethyl-dibromo-diphenyl Methane (DBBT), (CAS 99688-47-8), [Ref 3]   |   |                        |
| Mirex, (CAS 2385-85-5), [Ref 4/5]   |   | EU                     |
| Benzene, (CAS 71-43-2), [Ref 3]   | Shall not be placed on the market or used as a substance, as a constituent of other substances, or in mixtures in concentrations equal to or greater than 0.1% by weight (w/w%).                  | 155 countries          |
| Nonylphenol, (CAS 25154-52-3), [Ref 3]  | Shall not be placed on the market, or used as substances or in mixtures in concentrations equal to or greater than 0.1% by weight for the specific list of purposes specified in the legislation. | EU                     |
| Nonylphenol ethoxylate, (e.g. CAS 9016-45-9), [Ref 3]   |   |                        |
| Trichlorofluoromethane (CFC-11), (CAS 75-69-4), Dichlorodifluoromethane (CFC-12), (CAS 75-71-8), Trichlorotrifluoroethane (CFC-113), (CAS 76-13-1), Dichlorotetrafluoroethane (CFC-114), (CAS 76-14-2) Chloropentafluoroethane (CFC-115), (CAS 76-15-3) Bromochlorodifluoromethane (halon-1211), (CAS 353-59-3), Trifluorobromomethane (halon-1301), (CAS 75-63-8), Dibromotetrafluoroethane (halon-2402). (CAS 124-73-2), Hydrobromofluorocarbon (HBFC), (CAS Several Options), Bromochloromethane, (CAS 74-97-5) Methyl bromide, (CAS 74-83-9), Chlorodifluoromethane (HCFC-22), (CAS 75-45-6), Dichlorotrifluoroethane (HCFC-123), (CAS 306-83-2), Dichlorofluoroethane (HCFC-141), (CAS 1717-00-6), Chlorodifluoroethane (HCFC-142b), (CAS 75-68-3), [Ref 6] [Ref 10] | Ozone depleting substances, prohibited to use. For example CFC, Halons, HBFC, HCFC, and HCFC's.   | Global                 |
| III-CCl4, (CAS 56-23-5), [Ref 10]   | Prohibited to use.  | CN                     |
| CFC-13, CFC-111, CFC-112, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, CFC-217 (CAS several), [Ref 10]   | Prohibited to produce and use.  |                        |
| IV-C2H3Cl3 (CAS several) [Ref 10]   | Prohibited to produce and use.  |                        |
| HCFC-21, HCFC-22, HCFC-31, HCFC-121, HCFC-122, HCFC-123, HCFC-124, HCFC-131, HCFC-132, HCFC-133, HCFC-141, HCFC-141b, (CAS several), [Ref 10]   | Prohibited due to the country's decision to completely phase-out substances.<br>Phase out plan running from 2013 to 2030.   |                        |
| HCFC-142, HCFC-142b, HCFC-151, HCFC-221, HCFC-222, HCFC-223, HCFC-224, HCFC-225, HCFC-225ca, HCFC-225cb, HCFC-226, HCFC-231, HCFC-232, HCFC-233, HCFC-234, HCFC-235, HCFC-241, HCFC-242, HCFC-243, HCFC-244, HCFC-251, HCFC-252, HCFC-253, HCFC-261, HCFC-262, HCFC-271, (CAS several), [Ref 10]  |   |                        |
| VI-HBFCs (Several CAS), [Ref 10]  | Prohibited to produce and use.  |                        |
| VII-CH2BrCl (Several CAS), [Ref 10]   | Prohibited to produce and use.  |                        |
| VIII-CH3Br (Several CAS), [Ref 10]  | Prohibited to produce and use.  |                        |
| Diphenyl ether, Penta- bromo derivative and Octabromo derivative, (CAS 32534-81-9 & 32536-52-0), [Ref 3/5]  | Diphenyl ether, polybromo derivative.   | 155 countries          |
| Diphenyl ether, Penta- bromo derivative and Octabromo derivative, (CAS 32534-81-9 & 32536-52-0), [Ref 3/5]  | Diphenyl ether, polybromo derivative.   | 155 countries          |
| Polybrominated biphenyls (PBB), (CAS 59536-65-1), [Ref 3/5]   | Shall not be used in textile articles, such as garments, undergarments, and linen, intended to come into contact with the skin.   | 155 countries          |

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| Substance / CAS / Reference  | Conditions of prohibition  | The prohibition covers |
|--|--|------------------------|
| Polybrominated diphenyl ethers (PBDE), (CAS Not available), [Ref 3/5]  |  | 155 countries          |
| Asbestos, (CAS 12001-28-4, 12001-29-5, 12172-73-5, 132207-32-0, 1332-21-4, 77536-66-4, 77536-67-5, 77536-68-6), [Ref 3/5]  | The manufacture, placing on the market and use of these fibres and of articles and mixtures containing these fibres added intentionally is prohibited.   | 155 countries          |
| Organostannic compounds – The ban is for use as biocid in paint and in treatment of industrial water as described in the legal requirement, (CAS Several options), [Ref 3] | Shall not be placed on the market or used as substances or in mixtures where the substance or mixture according to the requirements of the legislation.  | EU                     |
| Tri-substituted organostannic compounds (TBT and TPT), Dibutyltin (DBT) and Dioctyltin (DOT), (Several CAS No.), [Ref 3]   | Prohibited in concentrations greater than 0.1 w/w%. Calculated as Sn. The prohibition applies as described in the legal requirement.   | EU                     |
| Mercury compounds, (CAS Several options), [Ref 3], and above 0,1% in electrical equipment, [Ref 2]   | Shall not be placed on the market or used as substances or in mixtures where the substance or mixture is intended for use as described in the legislation.   | EU                     |
| Arsenic compounds, (CAS Several options), [Ref 3]  | Shall not be placed on the market or used as substances or in mixtures where the substance or mixture is intended for use as specified in the legislation.   | EU                     |
| Cadmium compounds, (CAS Several options), [Ref 3]  | The prohibition covers specific uses as specified the legislation.   | EU                     |
| Chrome VI compounds, CAS (Several options), [Ref 3]  | The prohibition covers specific uses as specified the legislation (for example in cement and cement-containing preparations in concentrations above 0.0002% of the total dry weight of the cement).  | EU                     |
| Polybrominated biphenyls (PBB) (CAS 59536-65-1) [Ref 2]  | The prohibition covers electrical equipment where the compound is above 0.1%   | EU                     |
| Polybrominated diphenyl ethers (PBDE) (CAS not available) [Ref 2]  | The prohibition covers electrical equipment where the compound is above 0.1%   | EU                     |
| Lead in electrical equipment   | The prohibition covers electrical equipment where the compound is above 0.1%   | EU                     |
| Lead, (CAS Several options), [Ref 1]   | Shall not be placed on the market or used as substances or in mixtures where the substance or mixture is intended for use as specified in the legislation.   | DK                     |
| Substances listed in the REACH regulation with restriction. [Ref 3] <a href="#">Link to the list</a>   | Many of these are just restricted sales to the public.   | EU                     |
| One example of the 520 products restricted by REACH is:<br><br>Methylenediphenyl diisocyanate (MDI) (CAS 26447-40-5) [Ref 3]   | Shall not be placed on the market after 27 December 2010 as a constituent of mixtures in concentrations equal to or greater than 0.1% by weight of MDI for supply to the general public, unless suppliers ensure before the placing on the market that the packaging:<br><br>a) contains protective gloves which comply with the requirements of Council Directive 89/686/ EEC;<br>b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:<br><br>- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.<br>- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.<br>- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (that is type A1 according to standard EN 14387) is used.' 2. | EU                     |

### 3 Ausnahmen (Exceptions)

Die unten aufgeführten Ausnahmen sind Ausnahmen in den spezifisch anwendbaren Gesetzgebungen. Dem Lieferanten ist es erlaubt, solche Substanzen in an HAWART gelieferten Produkten zu verwenden.

*The below listed exceptions are exceptions in the specific applicable legislations and the Supplier is allowed to use such substances in Products delivered to HAWART.*

**Table 4: Exceptions for the Blacklist**

| Substance / CAS / Reference  | Conditions of prohibition   | The prohibition covers |
|--|---|------------------------|
| Benzene in products with concentrations above 0.1 w/w%, (CAS 71-43-2), [Ref 3] | <p>Shall not be placed on the market or used as a substance, as a constituent of other substances, or in mixtures, in concentrations equal to or greater than 0.1% by weight.</p> <p>Exceptions are:</p> <ul style="list-style-type: none"> <li>- motor fuels which are covered by Directive 98/70/EC;</li> <li>- substances and mixtures for use in industrial processes not allowing for the emission of benzene in quantities in excess of those laid down in existing legislation.</li> </ul> | EU                     |
| Cadmium compounds, (CAS Several options), [Ref 3]                              | <p>The prohibition covers specific uses as specified the legislation.</p> <ul style="list-style-type: none"> <li>- The prohibition does not apply to batteries.</li> </ul>  | EU                     |