



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 82474-1:2023**  
**01-september-2023**

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**Deklaracija materialov - 1. del: Splošne zahteve**

Material declaration – Part 1: General requirements

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**ICS:**

01.110	Tehnična dokumentacija za izdelke	Technical product documentation
13.020.01	Okolje in varstvo okolja na splošno	Environment and environmental protection in general

**oSIST prEN IEC 82474-1:2023**

**en**





111/706/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 82474-1 ED1

DATE OF CIRCULATION:

2023-07-14

CLOSING DATE FOR VOTING:

2023-10-06

SUPERSEDES DOCUMENTS:

111/670/CD, 111/704/CC

IEC TC 111 : ENVIRONMENTAL STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS AND SYSTEMS	
SECRETARIAT: Italy	SECRETARY: Mr Alfonso Sturchio
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 2,TC 9,TC 18,TC 20,TC 21,TC 23,TC 34,SC 34D,TC 59,TC 62,SC 65B,TC 80,TC 82,TC 88,TC 100,TC 110,TC 121,TC 124,TC 125,ACEA	PROPOSED HORIZONTAL STANDARD: <input checked="" type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input checked="" type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING <b>Attention IEC-CENELEC parallel voting</b> The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.  The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

**Material declaration – Part 1: General requirements**

PROPOSED STABILITY DATE: 2029

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## CONTENTS

1			
2			
3	FOREWORD.....		5
4	INTRODUCTION.....		7
5	1 Scope.....		9
6	2 Normative references .....		9
7	3 Terms, definitions and abbreviations .....		9
8	4 Requirements for material declarations.....		18
9	4.1 General.....		18
10	4.1.1 Overview .....		18
11	4.1.2 Conformity to the ISO/IEC 82474-1 standard .....		22
12	4.1.3 General requirements .....		22
13	4.1.4 Sector-specific requirements .....		22
14	4.2 Business information.....		22
15	4.3 Product information.....		23
16	4.4 Declaration for compliance requirements .....		24
17	4.4.1 General information .....		24
18	4.4.2 DSs and DSGs with mandatory reporting requirements.....		24
19	4.4.3 DSs and DSGs with optional reporting requirements.....		25
20	4.4.4 Product part Information .....		25
21	4.5 Composition declaration requirements .....		26
22	4.5.1 General requirements .....		26
23	4.5.2 Declaring product parts in a composition declaration .....		26
24	4.5.3 Declaring materials in a composition declaration .....		27
25	4.5.4 DSs and DSG substance(s) with mandatory reporting requirements.....		28
26	4.5.5 DSs and DSG substance(s) with optional reporting requirements.....		29
27	4.5.6 Other substance(s) .....		30
28	4.5.7 Declaration of proprietary substance(s) .....		30
29	4.5.8 Requirements for full material declaration (FMD) .....		30
30	4.5.9 Requirements for full substance declaration (FSD) .....		31
31	4.6 Process chemical declaration requirements .....		31
32	4.6.1 Background .....		31
33	4.6.2 General requirements .....		32
34	4.6.3 Process chemical declaration mandatory requirements.....		33
35	4.6.4 Process chemical declaration optional requirements.....		33
36	4.7 Material class declaration requirements .....		33
37	4.8 Query list declaration requirements.....		33
38	4.9 Other information .....		34
39	4.9.1 Attachments .....		34
40	4.9.2 Requester/responder mode.....		34
41	4.9.3 Distribution mode .....		35
42	5 Material declaration data exchange format (DXF) .....		35
43	5.1 General.....		35
44	5.2 Data exchange format (DXF).....		35
45	5.3 Data exchange.....		36
46	5.3.1 Two-way and one-way data exchange .....		36
47	5.3.2 Data exchange specification in the ISO/IEC 82474 SDB .....		36
48	5.3.3 Additional data exchange requirements .....		36

49	5.3.4	Material declaration file .....	36
50	5.4	Criteria for the ISO/IEC 82474 SDB maintenance of data exchange format .....	36
51	6	Requirements and guidance for developing reference lists for declarations .....	37
52	6.1	General.....	37
53	6.2	Material declarations and their reference lists .....	37
54	6.3	Reference lists development and maintenance .....	38
55	6.4	Additional reference lists.....	38
56	7	Cross-sector material class list content.....	39
57	7.1	General.....	39
58	7.2	Material class criteria .....	39
59	7.3	Material classification structure.....	39
60	8	ISO/IEC 82474 web services for data exchange communication .....	40
61	8.1	General.....	40
62	8.2	Reference forum standards .....	40
63	8.3	Information exchange service .....	42
64	9	ISO/IEC 82474 SDB maintenance.....	42
65	9.1	General.....	42
66	9.2	ISO/IEC 82474 SDB update process .....	42
67	9.3	Maintenance of material declaration data exchange format (DXF).....	43
68	9.4	Maintenance of reference list exchange formats (RSXF) .....	44
69	9.5	Maintenance of ISO/IEC 82474 webservice.....	44
70	9.6	Maintenance of ISO/IEC 82474-1 CBI substance identification list .....	44
71	9.7	Common data dictionary (CDD) update .....	45
72	Annex A (normative)	Common requirements and guidance for creating reference lists .....	46
73	A.1	Common requirements .....	46
74	A.1.1	Introduction .....	46
75	A.1.2	Identification requirements.....	46
76	A.1.3	Identification data model.....	46
77	A.1.4	Reference list authority and capability levels .....	47
78	A.1.5	Change management tracking .....	48
79	A.2	Declarable substance list (DSL) .....	48
80	A.2.1	Introduction .....	48
81	A.2.2	DSL type .....	49
82	A.2.3	Reporting threshold .....	49
83	A.2.4	Reportable application .....	49
84	A.2.5	Threshold reporting level .....	49
85	A.2.6	Reporting requirement .....	50
86	A.2.7	Threshold criteria.....	50
87	A.2.8	Threshold source.....	50
88	A.2.9	DSL data model.....	50
89	A.2.10	Declarable Substance Group Substance List (DSG substance list) .....	51
90	A.3	Material class list (MCL) .....	51
91	A.3.1	General .....	51
92	A.3.2	MCL data model .....	51
93	A.4	Query list (QL) .....	52
94	A.4.1	General .....	52
95	A.4.2	QL data model.....	52
96	A.5	Product category list (PCL) .....	53

97	A.6	Exemption list (EL).....	53
98	A.7	Application list (AL).....	53
99	A.8	Use descriptor list (UDL).....	53
100		Bibliography.....	55
101			
102		Figure 1 – ISO/IEC 82474 material declaration structure and process.....	8
103		Figure 2 – Material declaration capabilities .....	18
104		Figure 3 – Requirements for declaration for compliance and composition declaration .....	19
105		Figure 4 – Data model for a declaration for compliance.....	19
106		Figure 5 – Conceptual diagram of the data model for a composition declaration .....	20
107		Figure 6 – Conceptual diagram of the data model for a process chemical declaration .....	21
108		Figure 7 – Conceptual diagram of the data model for a material class declaration.....	21
109		Figure 8 – Conceptual diagram of the data model for a query list declaration.....	21
110		Figure 9 – Process chemical declaration flow chart.....	32
111		Figure 10 – Material declaration and their reference lists .....	38
112		Figure 11 – Material classification structure .....	40
113		Figure A.1 – Identification data model.....	47
114		Figure A.2 – Authority data model.....	47
115		Figure A.3 – Change management data model.....	48
116		Figure A.4 – DSL data model .....	50
117		Figure A.5 – MCL data model .....	52
118		Figure A.6 – QL data model .....	52
119		<a href="https://standards.iteh.ai/catalog/standards/sist/13dbc5a4-ec7f-4427-8686-408f0d03dcc7/osist-pren-iec-82474-1-2023">https://standards.iteh.ai/catalog/standards/sist/13dbc5a4-ec7f-4427-8686-408f0d03dcc7/osist-pren-iec-82474-1-2023</a>	
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**MATERIAL DECLARATION**  
**PART 1: General requirements****FOREWORD**

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- ISO/IEC 82474-1 has been prepared by IEC Technical Committee 111, Environmental standardization for electrical and electronic products and systems, and Subcommittee 1: Environmental management systems, of ISO Technical Committee 207: Environmental management. It is an International Standard.
- This first edition leverages previous work done in IEC 62474 (Material declaration for products of and for the electrotechnical industry), extending the application of the material declaration standard across all products of any industry sector that falls under the ISO and IEC scopes.
- This edition includes the following technical changes with respect to the IEC 62474 edition 2:
- Definitions were sharpened to fulfil needs from sectors other than electrical and electronic products and systems and new terms have been added that support new topics introduced such as webservice methods, material efficiency and product circularity, and new reference list types.
  - A new subclause covering process chemicals declaration was included. This subclause covers requirements related to the information required about substances and applicable processes where they are used in the product life cycle.

174 c) A new clause covering webservices on material declaration was included. This clause  
175 covers requirements related to topics such as machine-machine communication,  
176 authentication service, and data representation.

177 d) Requirements and guidance for the development of reference lists such as query list (QL),  
178 and application/exemption lists (AL/EL) were included.

179 Full information on the voting for the approval of this International Standard can be found in the  
180 report on voting indicated in the above table.

181 Full information on the voting for its approval can be found in the report on voting indicated in  
182 the above table.

183 The language used for the development of this International Standard is English.

184 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in  
185 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available  
186 at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are  
187 described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

188 The committee has decided that the contents of this document will remain unchanged until the  
189 stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the  
190 specific document. At this date, the document will be

- 191 • reconfirmed,
- 192 • withdrawn,
- 193 • replaced by a revised edition, or
- 194 • amended.

195



196

## INTRODUCTION

197 This document benefits all industries by establishing requirements for reporting of

198 – substances and materials in products,

199 – material efficiency and product circularity data,

200 – substances used for manufacturing and other product life cycle stages,

201 and by standardizing protocols, and facilitating the transfer, and processing of such data.

202 Material declarations are used by many industries to track and declare specific product  
203 information used for compliance, the preparation of product (digital) passports and/or  
204 environmentally conscious design (ECD) considerations. To simplify requirements across the  
205 supply chain and to improve economic efficiencies, it is important to standardize the exchange  
206 of product, product part, material and substance data (including material efficiency and product  
207 circularity) and provide requirements within material declarations.

208 The standard ISO/IEC 82474-1 is made of two parts: this document, which contains  
209 requirements for material declarations and a collection of standardized items managed in a  
210 database (standard as database (SDB)) containing the schema for data exchange format and  
211 the accompanying developer's table plus other useful information.

212 This document defines the requirements for material declarations:

213 1) Declaration for compliance – is a summary declaration with reference to the list of declarable  
214 substances and declarable substance groups within the declarable substance list (DSL).  
215 The declaration is always at a product level.

216 2) Composition declaration – it is a detailed declaration of individual materials and substances  
217 contained in the product and product parts.

218 3) Material class declaration – is a declaration of the types of materials (material classes) that  
219 are present in a product.

220 4) Process chemical declaration – is a declaration of substances within a declarable substance  
221 list used in processes during manufacture or other product life cycle stage.

222 5) Query list declaration – is a declaration providing predetermined statements (queries) with  
223 responses that are picked up from a pre-defined set of choices (e.g., "True" and "False").

224 NOTE: For the purpose of this document, product is the object of the declaration and may be a substance, material,  
225 mixture, article or combination thereof.

226 The standard also contains requirements and guidance for the format of reference lists, such  
227 as declarable substances lists.

228 The standard ISO/IEC 82474-1 allows lists from different authorities to be used with the ISO/IEC  
229 82474 data exchange format.

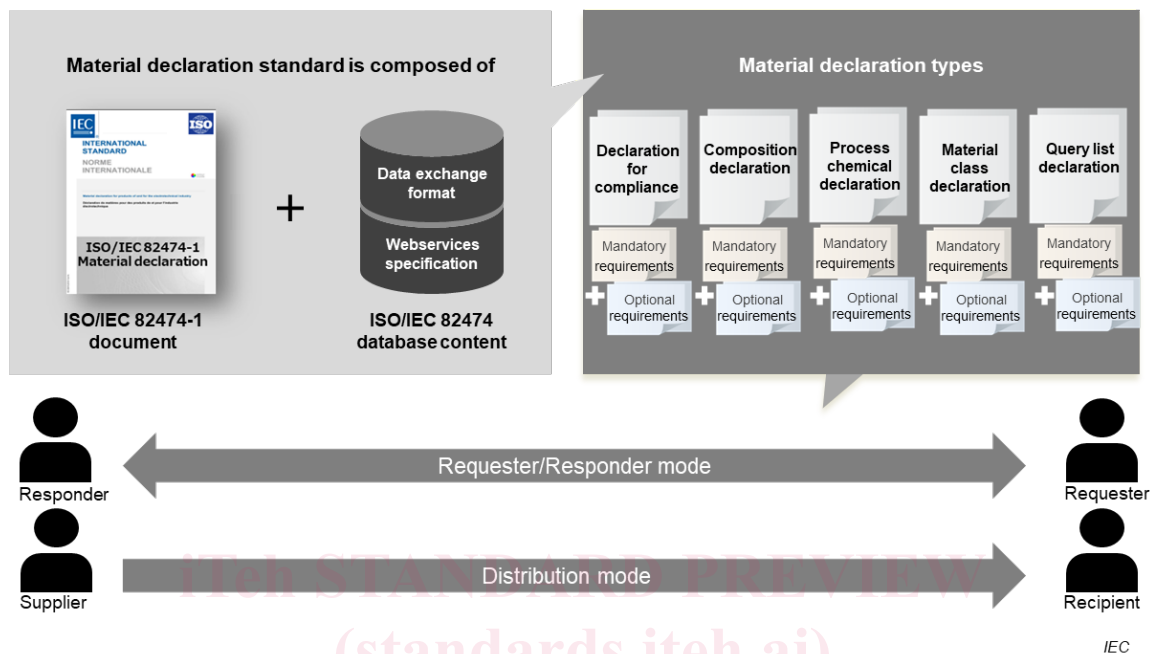
230 EXAMPLE: IEC 62474 DSL, automotive GADSL, aerospace AD-DSL

231 The ISO/IEC 82474 SDB is maintained by a database maintenance team (SDB team 82474)  
232 which updates information in the ISO/IEC 82474 SDB based on requirements specified in the  
233 ISO/IEC 82474-1 standard. Other list authorities may have their own maintenance teams, based  
234 on the rules of the specific list authority.

235 By fulfilling the requirements of the ISO/IEC 82474-1 standard and based on the information  
236 from the ISO/IEC 82474 SDB, five types of declaration can be created as mentioned above and  
237 as shown in Figure 1.

238 The transmission of information in the supply chain can be done in two modes (see Figure 1):

- 239 • Requester/responder mode: The requester's specific product information needs to be  
 240 included before the material declaration request is sent to the responder. Requester  
 241 determines the type of material declaration(s) the responder will provide.
- 242 • Distribution mode: The responder provides material declaration data about their product(s)  
 243 to a recipient.



244

245 **Figure 1 – ISO/IEC 82474 material declaration structure and process**

246 The ISO/IEC 82474-1 declaration requirements and guidance are described in the following  
 247 clauses:

- 248 – Clause 4 specifies requirements for material declarations.
- 249 – Clause 5 together with ISO/IEC 82474 SDB specify the material declaration data exchange  
 250 format and requirements.
- 251 – Clause 6 specifies requirements and provides guidance for developing reference lists.  
 252 Additional specifications are given in Annex A.
- 253 – Clause 7 specifies requirements and provides guidance for developing cross-sector material  
 254 class list (MCL).
- 255 – Clause 8 specifies the web services on material declarations with additional specifications  
 256 in ISO/IEC 82474 SDB.
- 257 – Clause 9 specifies the ISO/IEC 82474 SDB maintenance process with additional information  
 258 on CDD updates in Annex C.

259

## MATERIAL DECLARATION

### PART 1: General requirements

260  
261  
262  
263

#### 264 1 Scope

265 This document specifies the requirements and guidance for the content, format and exchange  
266 relating to material declarations for products.

267 The main intended use of this document is to provide data up and down the supply chain that:

- 268 • allows organizations to assess products against material and substance requirements,
- 269 • allows organizations to assess substances used in manufacturing and other product life  
270 cycle stages,
- 271 • allows organizations to use this information in their activities related to environmentally  
272 conscious design process and across all product life cycle stages,
- 273 • allows organisations to obtain information about material efficiency and product circularity  
274 of their products.

275 This document specifies mandatory declaration requirements and provides also optional  
276 declaration requirements.

277 This document does not suggest any specific method or process to capture material declaration  
278 data in the supply chain. However, it provides a data format used to transfer information within  
279 the supply chain. Organizations may determine the most appropriate method to capture material  
280 declaration data without compromising data utility and quality. This document is intended to  
281 allow declaration based on engineering judgement, supplier material declarations, and/or  
282 sampling and testing.

#### 283 2 Normative references

284 There are no normative references in this document.

#### 285 3 Terms, definitions and abbreviations

286 For the purposes of this document, the following terms and definitions apply.

287 ISO and IEC maintain terminological databases for use in standardization at the following  
288 addresses:

- 289 • IEC Electropedia: available at <http://www.electropedia.org/>
- 290 • ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 291 3.1 Terms and definitions relating to MATERIAL, PRODUCT and PROCESS

##### 292 3.1.1 293 article

294 object which during production is given a special shape, surface or design which determines its  
295 function to a greater degree than does its chemical composition

296 [SOURCE: EU REACH Regulation (EC) No.1907/2006, Article 3.]

- 297 **3.1.2**  
298 **exemption**  
299 allowance for the use of regulated declarable substances or declarable substance groups above  
300 their threshold(s) as defined in laws or regulations
- 301 **3.1.3**  
302 **formulation**  
303 mixture of ingredients prepared according to a formula and used for a specific purpose
- 304 **3.1.4**  
305 **homogenous material**  
306 one material of uniform composition throughout or a material, consisting of a combination of  
307 materials, that cannot be disjointed or separated into different materials by mechanical actions  
308 such as unscrewing, cutting, crushing, grinding and abrasive processes
- 309 [SOURCE: EU RoHS Directive 2011/65/EU, Article 3.]
- 310 **3.1.5**  
311 **intentional added substances**  
312 substance used in one or more product life cycle stage(s) intended to give a particular property,  
313 reaction or quality
- 314 Note 1 to entry: This does not include impurities, or unreacted residual substances.
- 315 **3.1.6**  
316 **intermediates**  
317 substance produced during the conversion of reactant to product
- 318 Note 1 to entry: an intermediate can be manufactured for and consumed in or used for chemical reaction to be  
319 transformed into another substance. <https://standards.iteh.ai/catalog/standards/sist/13dbc5a4-ec7f-4427-8686-408f0d03dcc7/osist-pren-iec-82474-1-2023>
- 320 **3.1.7**  
321 **material**  
322 (physical) matter composed by one or more substances
- 323 **3.1.8**  
324 **material class**  
325 defined classification of materials that are established for purposes of inventorying aspects of  
326 a product, such that no two classes contain the same materials
- 327 Note 1 to entry: If a material falls under multiple material classes, such as copper zinc alloy which can fall under  
328 copper and its alloys or zinc and its alloys, the substance with the largest mass within the material should take  
329 precedence.
- 330 **3.1.9**  
331 **mixture**  
332 combination of two or more substances
- 333 [SOURCE: ISO/TS 23303:2020, 3.2.20 – modified: the term “different” was removed from the  
334 definition.]
- 335 **3.1.10**  
336 **process chemical**  
337 chemical used in one or more product life cycle stage(s)
- 338 Note 1 to entry: Process chemicals can be monomers, intermediates, mixtures, or formulations.
- 339 Note 2 to entry: Chemicals used for non-product processes such as facility maintenance are not considered as  
340 process chemicals.

341 Note 3 to entry: Examples of product life cycle stage(s) are manufacturing, product use, installation or commissioning,  
342 repair, maintenance, overhaul.

### 343 **3.1.11**

#### 344 **process chemical substance**

345 substance or substances contained in a process chemical

### 346 **3.1.12**

#### 347 **process name**

348 name of a process within one or more product life cycle stage that uses the declared process  
349 chemical substance

350 EXAMPLE 1: Examples of processes are cleaning, lubrication, corrosion protection treatment, etc.

351 EXAMPLE 2: Examples of a process used in multiple product life cycle stages is cleaning in manufacturing or repair  
352 process.

353 Note 1 to entry: Process names vary for different sectors or locations. Any applicable sector-specific terminology  
354 may be used.

### 355 **3.1.13**

#### 356 **product**

357 any goods or service

358 Note 1 to entry: For the purpose of this document, product is the object of the declaration and may be a substance,  
359 material, mixture, article or combination thereof.

360 [SOURCE: ISO 14050:2020, 3.5.12, modified – Note 1 to entry has been included.]

### 361 **3.1.14**

#### 362 **product family**

363 group of products each of which contains the same substances or materials at a similar  
364 concentration level

365 Note 1 to entry: A common case would be an electrical component supplier having many products of the same  
366 substance content that have different electrical values, such as a capacitor, resistor, inductor or an integrated circuit.

### 367 **3.1.15**

#### 368 **product part**

369 sub-unit of a product

370 Note 1 to entry: A product part can be a sub-unit of another product part.

371 Note 2 to entry: If a standard product part e.g., a cable of 1 m length is declared as product part, only portions of it  
372 might be physically present in the product.

### 373 **3.1.16**

#### 374 **substance**

375 chemical elements and their compounds in the natural state or obtained by any production  
376 process, including any additive necessary to preserve the stability of the product and any  
377 impurities deriving from the process used, but excluding any solvent which may be separated  
378 without affecting the stability of the substance or changing its composition

379 [SOURCE: Globally Harmonized System of Classification and Labelling (GHS):2017, Chapter  
380 1.2, definitions and abbreviations]

### 381 **3.1.17**

#### 382 **substance group**

383 two or more substances, that share at least one chemical sub-structure, or chemical or physical  
384 property under a generic name

## 385 **3.2 Terms and definitions relating to MATERIAL DECLARATION**

### 386 **3.2.1**

#### 387 **composition declaration**

388 quantitative declaration of substances contained within a product, product part, or material as  
389 applicable

### 390 **3.2.2**

#### 391 **declarable product part**

392 product part that contains a DS or DSG for which a requirement exists to identify the product  
393 part in which it is contained

### 394 **3.2.3**

#### 395 **declarable substance**

#### 396 **DS**

397 substance that meets specified criteria for reporting

398 Note 1 to entry: An example of criteria for declarable substances is specified in IEC 62474 Clause 5.

399 Note 2 to entry: This note applies to the French language only.

### 400 **3.2.4**

#### 401 **declarable substance group**

#### 402 **DSG**

403 substance group that meets specified criteria for reporting

404 EXAMPLE Chromium (VI) compounds.

405 Note 1 to entry: This note applies to the French language only.

### 406 **3.2.5**

#### 407 **DSG substance(s)**

408 substance(s) that belongs to a declarable substance group

### 409 **3.2.6**

#### 410 **declarable substance list**

#### 411 **DSL**

412 list of declarable substances and/or declarable substance groups each with a reporting  
413 threshold for a reportable application(s) which has a mandatory or optional reporting  
414 requirement when contained at or above its maximum threshold value within a product, product  
415 part or material

416 Note 1 to entry: This note applies to the French language only.

### 417 **3.2.7**

#### 418 **declaration for compliance**

419 declaration regarding the presence or absence of declarable substances and declarable  
420 substance groups with mandatory reporting requirements in the declarable substance list

421 Note 1 to entry: The declaration is relative to a reporting threshold level for a defined reportable application.

### 422 **3.2.8**

#### 423 **declaration hierarchy**

424 tree-like structure containing one or more branches that represents the relationship between  
425 product, product part(s), material(s) and/or substance(s) within a material declaration

426 Note 1 to entry: Figure 5 demonstrates a declaration hierarchy.

### 427 **3.2.9**

#### 428 **DSG substance list**

429 list of substances belonging to DSGs in the declarable substance list

430 Note 1 to entry: The list of substances in the DSG substance list for a DSG may or may not be a complete or  
431 exhaustive list.

432 Note 2 to entry: This note applies to the French language only.

### 433 **3.2.10**

#### 434 **full material declaration**

#### 435 **FMD**

436 composition declaration whereby all materials are declared, and all substances are declared or  
437 otherwise represented by an anonymous identification

438

439 Note 1 to entry: Substances that are anonymously identified may be proprietary substances the supplier retains as  
440 confidential business information (CBI). The mass of all substances including those that are identified as anonymous  
441 adds up to 100% of the mass of the product.

### 442 **3.2.11**

#### 443 **full substance declaration**

#### 444 **FSD**

445 composition declaration whereby all substances and materials are declared and identified

446 Note 1 to entry: FSD is an FMD that does not include any anonymous identification of substances in the declaration.

#### 447 **list authority**

448 designated owner of a list

449 Note 1 to entry: The list authority is used in conjunction with the list identity and list version.

### 450 **3.2.12**

#### 451 **list entry identity**

452 parameter used to identify a specific entry within a defined list

453 Note 1 to entry: For example, the IEC 62474 DSL entry identity would be used to identify a specific declarable  
454 substance or declarable substance group within its list.

### 455 **3.2.13**

#### 456 **list identity**

457 parameter used to identify a specific list

458 Note 1 to entry: The list identity is used in conjunction with the list authority and list version.

### 459 **3.2.14**

#### 460 **list version**

461 parameter used to identify a specific version of a list

462 Note 1 to entry: The list version is used in conjunction with the list authority and list identity.

### 463 **3.2.15**

#### 464 **material declaration**

465 declaration of substances and/or substance groups and/or material classes contained within a  
466 product, product part, or material as applicable

### 467 **3.2.16**

#### 468 **reportable application**

469 intended use of a declarable substance or declarable substance group which determines its  
470 relevance for disclosure

471 Note 1 to entry: The use of reportable applications may be applicable to declarable substances, declarable  
472 substance groups, product parts and materials. Examples of product parts and materials are batteries, textiles, and  
473 wood.

474 Note 2 to entry: As legislations have different scopes for some declarable substances, declarable substance  
475 groups, product parts or materials, more than one reportable application may be provided in the DSL