



How to track hazardous substances in the supply chain

Safer Chemicals Conference

2 June 2020

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#SAFERCHEMICALS

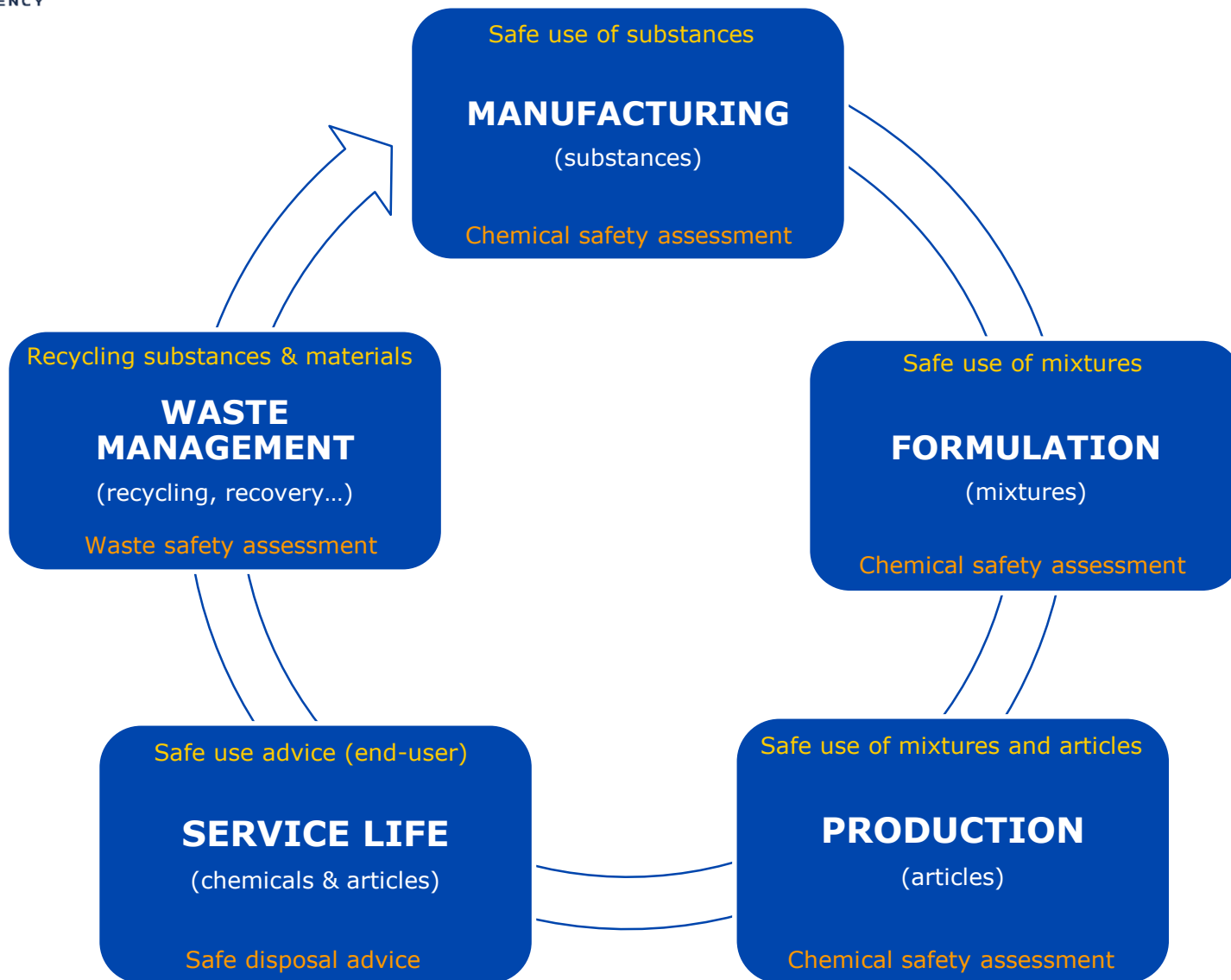
Overview

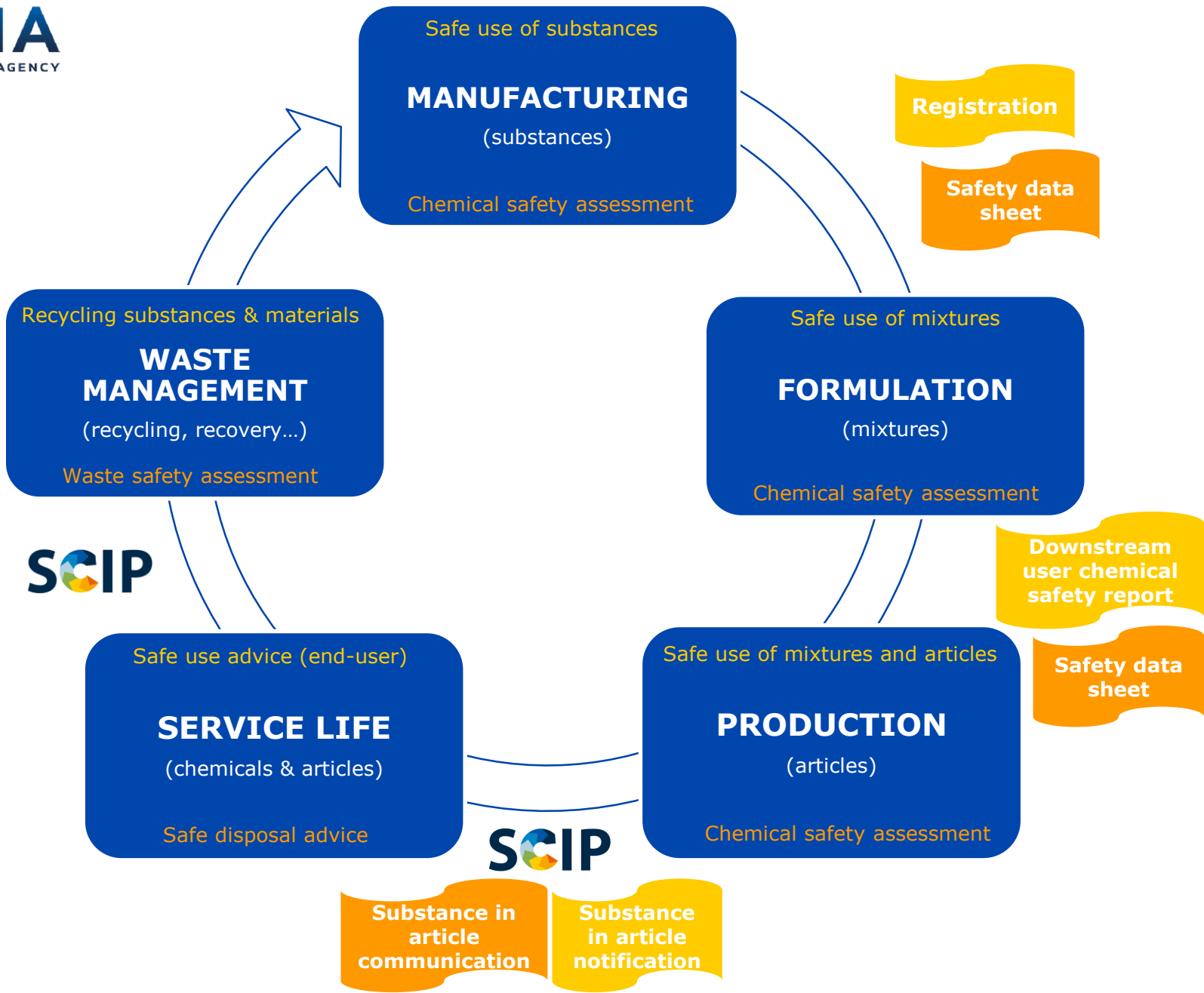
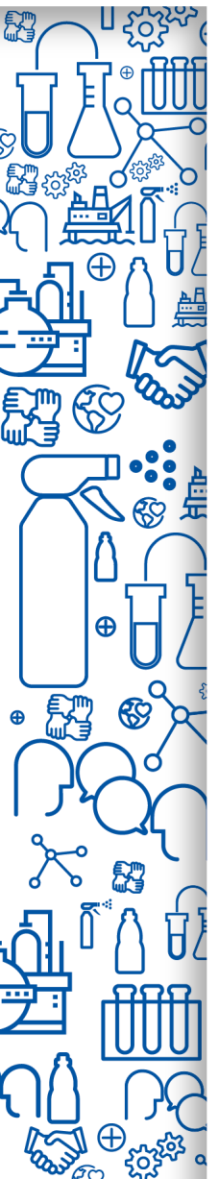
- Setting the scene
- Tracking hazardous substances from cradle to cradle
- SCIP database



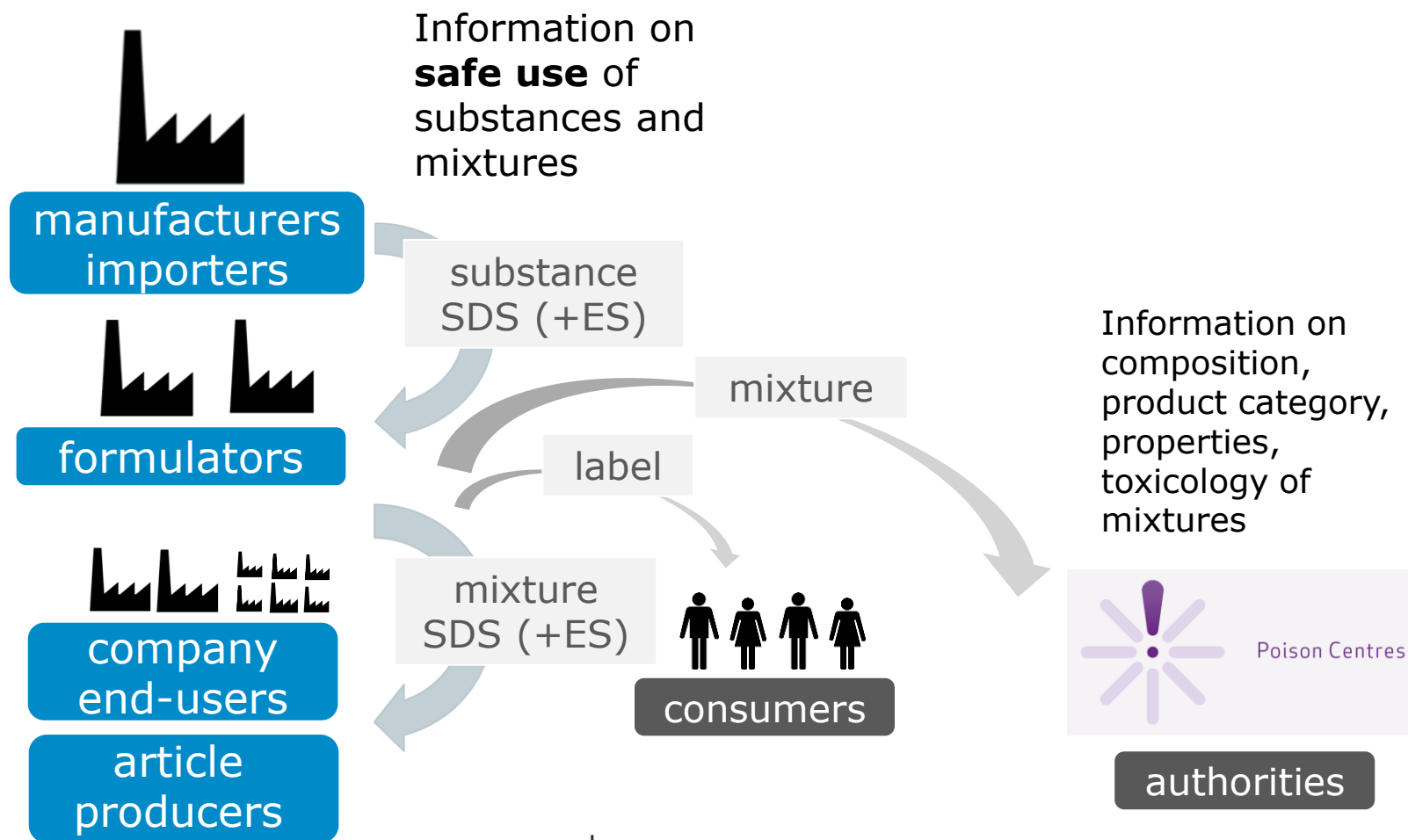
Setting the scene



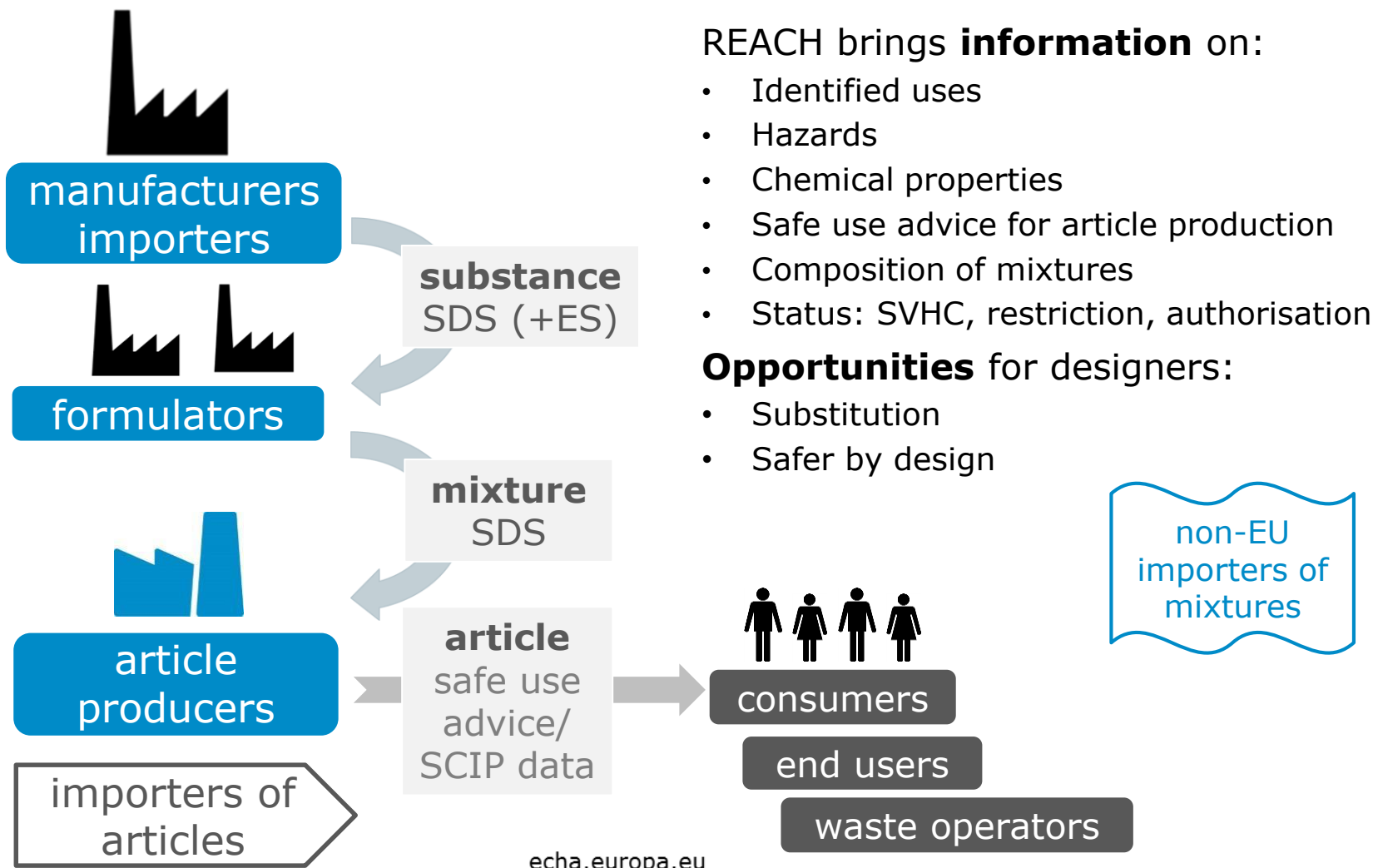




Supply chains and REACH/CLP



Supply chain and article producers



REACH brings **information** on:

- Identified uses
- Hazards
- Chemical properties
- Safe use advice for article production
- Composition of mixtures
- Status: SVHC, restriction, authorisation

Opportunities for designers:

- Substitution
- Safer by design

Summary

Vision

- Cradle-to-cradle flow of information for all life cycle stages, accessible and relevant for each actor
- REACH supply chain (substances and mixtures): information on all hazardous ingredients
- REACH article supply chain: visibility on SVHCs to enable safe use, substitution, consumer choice and appropriate waste treatment

Enabled by

- Investments in REACH supply chain can bring more harmonised (consistent) and processable data for safety assessment

Substances of very high concern



Candidate List of SVHCs

Substance
of very high
concern
(SVHC)

- Carcinogenic, mutagenic, toxic for reproduction (CMR category 1A or 1B)
- Persistent, bioaccumulative and toxic (PBT)
- Very persistent and very bioaccumulative (vPvB)
- Equivalent level of concern (ELoC)

Candidate List

Candidate List of substances of very high concern for Authorisation
(published in accordance with Article 59(10) of the REACH Regulation)

Notes:

- Authentic version:** Only the Candidate List published on this website is deemed authentic. Companies may have immediate legal obligations following the inclusion of a substance in the Candidate List on this website including in particular Articles 7, 33 and 33 of the REACH Regulation.
- Nomenclature identifiers:** Each substance in the entry covers both atmospheric and hydrated forms of a substance. The CAS number shown in an entry is typically for the anhydrous form. Hydrated forms of the substance identified by other CAS numbers are still within the scope of the entry.
- Other nomenclature identifiers:** For those entries with "-" in the EC number and CAS number columns, a non-exhaustive inventory of EC and/or CAS Registry numbers identifying substances or groups of substances considered to fall within the scope of the Candidate List entry is included, where practically possible. This information can be accessed through the "Details" button of the substance entry.

FURTHER INFORMATION

- Have information about Candidate List of Substances of Very High Concern for Authorisation
- Check on Candidate List substances in Article 59
- Request for inclusion
- Request for exclusion

See a problem or have feedback?

Filter the list

Substance name	EC No.	CAS No.	Reason for inclusion	Priority	2013-2018 period
2,4,6-trinitrophenol (2,4,6-trinitrophenol) precipitated acid, its salts and its acid halides (containing one of their substituted benzene ring substitutions thereof)	-	88-91-4	Equivalent level of concern having probable serious effects to human health (Article 57(b) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(c) - environment)	EU/17/2018	▶
2-methylmethoxy acetone	203-772-0	110-44-6	Toxic for reproduction (Article 57(c))	EU/17/2018	▶
2-methylpropanal	203-679-0	98-24-4	Endocrine disrupting properties (Article 57(d) - environment)	EU/17/2018 EU/16/1248	▶
Tris(4-methylphenyl, branched and linear) phenolate (TMPP) with 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000	EU/17/2018	▶			

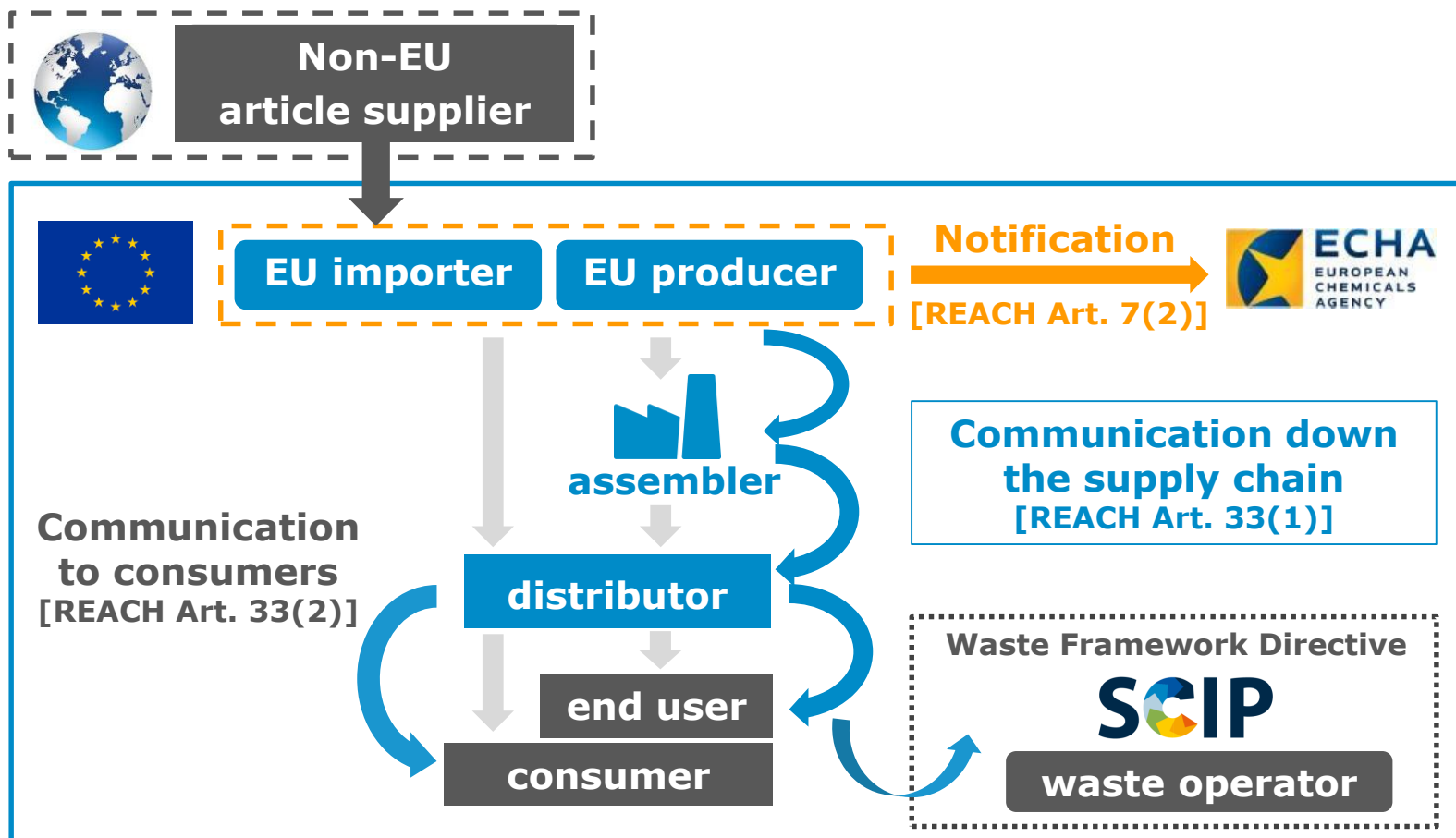
Official source:
[ECHA's website](http://echa.europa.eu)

Obligations for SVHCs

- Candidate List **substances** as such or in **mixtures**
 - Mandatory to provide a safety data sheet
 - Mixture safety data sheet:
 - Candidate List substances must be identified (Section 15) and concentration provided in Section 3.2.
 - Provide a safety data sheet for non-hazardous mixture (acc. CLP) with PBT, vPvB, and ELoC substances, upon request by the recipient
- Presence of Candidate List substances above 0.1% weight/weight in **articles** leads to obligations for those articles



Articles with SVHCs: what REACH foresees?



Articles: REACH and SCIP notification

	Communication in supply chains	SCIP notification
Conditions	Substance of very high concern	+ % > 0.1% w/w 'Article' defined under REACH
Information	Sufficient information to allow safe use of the article, considering all life-cycle stages, as well as foreseeable misuse, recycling and disposal	
Identification	As a matter of course: e.g. catalogues, labels	Needs to be provided
Format	Not specified Could be re-used?	SCIP format by ECHA



SCIP database on substances of concern in products



SCIP Database

- Information on substances of very high concern in articles as such or in complex objects (products)
- Established under Waste Framework Directive
- Ensures that information about the presence of SVHCs is available throughout the whole life cycle of products and materials, including at waste stage



SCIP Database objectives

Reduce the content of (severely) hazardous substances in materials and products, including recycled materials

Push for **substitution** of substances of concern and **prevention** of (hazardous) waste generation



Contribute to a more **circular** economy: improve waste treatment operations

Increase authorities' **information** basis on substances in articles



Advice to industry

EU producers & importers



Assemblers



Distributors

**As from
5 January
2021**

Submit info
to ECHA



SCIP

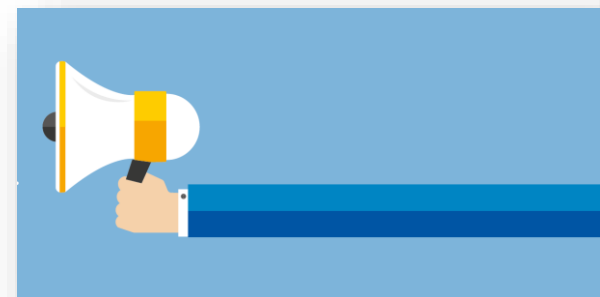
Get prepared!

Visit our website:

echa.europa.eu/scip-database

Conclusions

- Improving REACH and CLP **processes, tools and data** will support tracking hazardous substances
- Improve **transparency** about (severely) hazardous substances as such and in mixtures and articles
- Contribute to ensuring **safe use** of chemicals at all stages of their lifecycle
- Improve product **safety** and reducing hazardous **waste**
- Contribute to making **recycled** products safer
- Empower consumers and supply chain actors to make **better informed** choices





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