



Downstream Users of Chemicals Co-ordination group

Safe use information for mixtures

SUMIs from formulators for end-users

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Safe Use of Mixtures

Actions in the CSR/ES Roadmap



Action 4.4. (A + B)

Further develop the **methodology** to link the **substance-related** safety advice in the exposure scenarios with the communication on safe use of (substances in) **mixtures**.

Strongly linked to action 2.3.A. – Sector-specific Workers Exposure Descriptions (SWEDs) template

Action 5.1

Analyse the **information needs** of the different **end-user** groups and **improve the presentation of information on safe use of mixtures** in the safety data sheet (either in exposure scenarios or in the main body of the document).



What is DUCC?



- A joint platform of European associations whose member companies use chemicals to **formulate mixtures** (as finished or intermediary products) for **end users**, including professional and industrial end users, as well as for **consumers**.

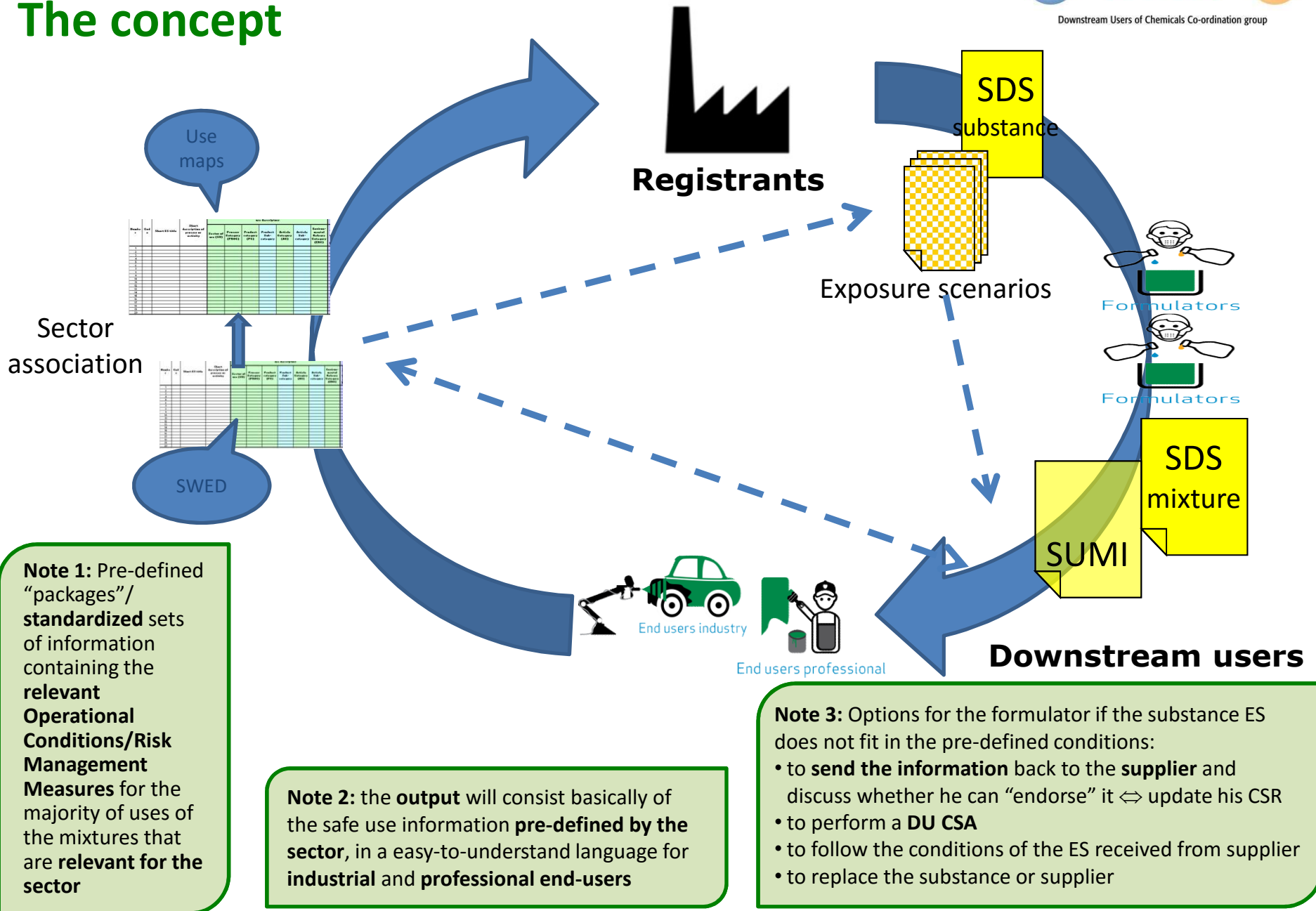


- DUCC focuses on the needs, rights, duties and specificities of downstream users under **REACH** and **CLP**



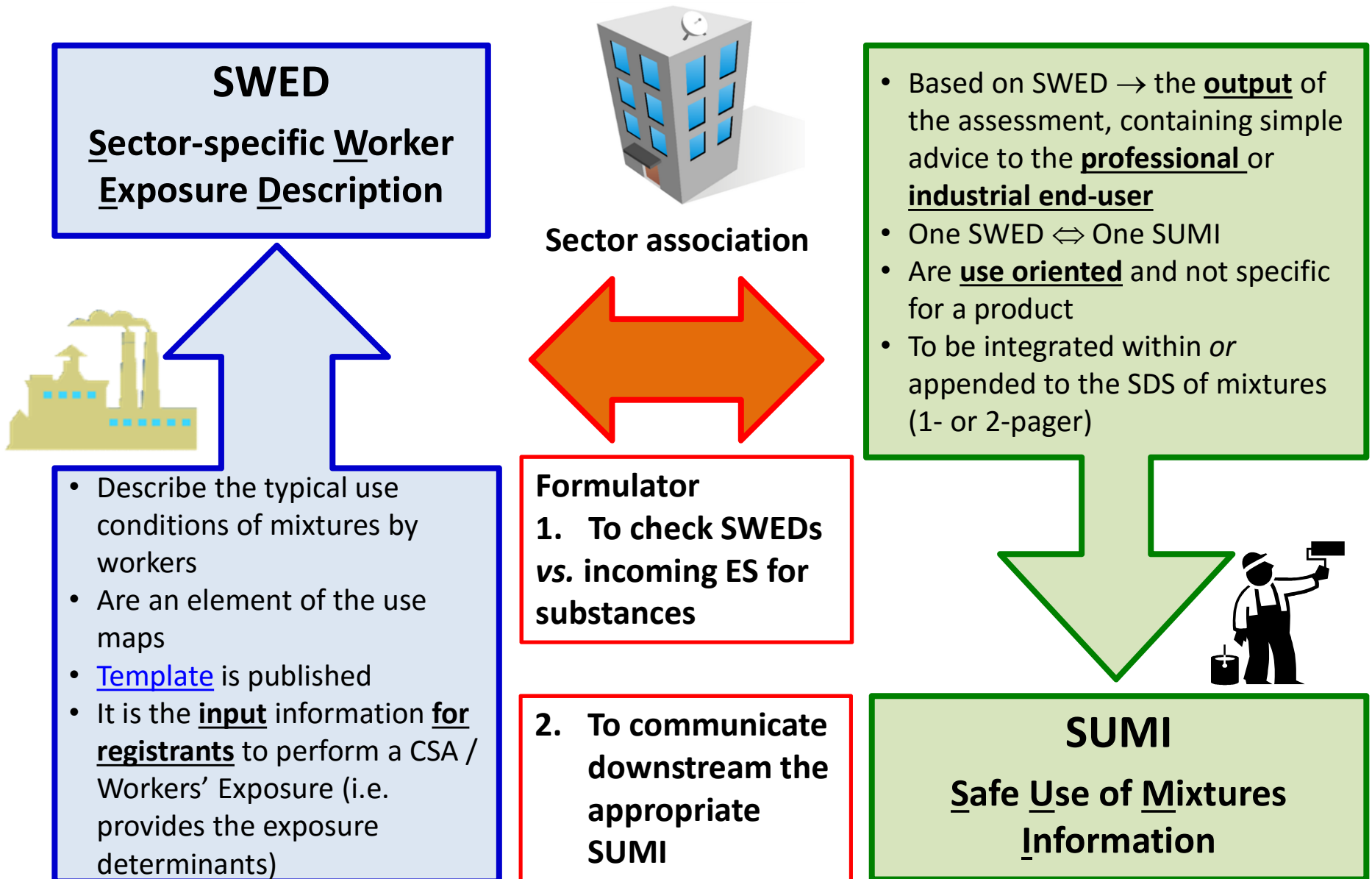
The DUCC “Bottom-Up” approach

The concept



The DUCC “Bottom-Up” approach

The key elements



The DUCC “Bottom-Up” approach

SUMI – additional considerations



- Sending information on safe use of mixtures is mandatory when a safety data sheet is required (REACH Art. 31(7))
 - Therefore a SUMI would be expected for **classified** products only
- SUMIs do not replace **SDS**!
 - SDS includes *product-specific* information (classification, specifications of Personal Protective Equipment, ...) and SUMI is for the *use*
- Sometimes **more than one SUMI** can be integrated within or appended to the SDS
 - Depending on the way that typical uses are defined by the sectors
- Will ideally be **translated** (to be made available by sectors)

The DUCC “Bottom-Up” approach

What are the expected benefits?



SWED

Sector-specific
Worker
Exposure
Description

Upstream communication in the supply chain

- Registrants will use **realistic** and **harmonised** information for their Chemical Safety Assessment
- Registrants will use information that is **representative** of a sector

SUMI

Safe Use of
Mixtures
Information

Downstream communication in the supply chain

- Professional/industrial end users (last DUs in the supply chain) will receive **consistent** and (more) **realistic** safe use information, in a **harmonised** template and in **clear, understandable** language
- These DUs will be able to **implement** the conditions of use **more easily**

The DUCC “Bottom-Up” approach

The members involved



End users can expect to receive a **SUMI** if they work with a **classified mixture**, such as:

- Adhesives and sealants
- Paints and printing inks
- Construction chemicals
- Imaging and printing chemicals
- Detergents, maintenance and cleaning products

CEPE's approach

SWEDs for painting and printing



| SWED code | Use name |
|----------------|--------------------------------------------------------------|
| CEPE_IS_01_v1 | Industrial spray painting, enclosed |
| CEPE_IS_02_v1 | Industrial spray painting, walk-in booth |
| CEPE_IS_03_v1 | Industrial spray painting, no booth |
| CEPE_IS_04_v1 | Industrial low-energy painting, enclosed |
| CEPE_IS_05_v1 | Industrial low-energy painting, no booth |
| CEPE_PW_01_v1 | Professional spray painting, near-industrial setting |
| CEPE_PW_02_v1 | Professional low-energy application, near-industrial setting |
| CEPE_PW_03a_v1 | Professional spray painting, indoor (Level I) |
| CEPE_PW_03b_v1 | Professional spray painting, indoor (Level II) |
| CEPE_PW_04_v1 | Professional painting, indoor brush/roller |
| CEPE_PW_05a_v1 | Professional spray painting, outdoor (Level I) |
| CEPE_PW_05b_v1 | Professional spray painting, outdoor (Level II) |
| CEPE_PW_06_v1 | Professional painting, outdoor brush/roller |
| EuPIA_IS_01_v1 | Printing in an enclosed or extracted process |
| EuPIA_IS_02_v1 | Printing with enhanced (mechanical) room ventilation |
| EuPIA_IS_03_v1 | Printing with good general room ventilation |
| EuPIA_IS_04_v1 | Digital printing with good general room ventilation |



[Details](#)

CEPE's approach

Content of a SWED



- Defines contributing activities (process steps), with OCs and RMMs, for a **complete use**
- Based on ECETOC TRA (v.3) default estimates

| Use identification and general description | | | Link activities to exposure assessment inputs | | Operational Conditions (exposure modifiers) | | Risk Management Measures | | |
|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------|---------------------------------------------|------------------------|--------------------------|----------------|--------------------------|
| Use code | Use name | Brief description of use process | contributing activity name | Contributing activity descriptor (PROC) | Duration (per day) | Ventilation efficiency | Respiratory protection | Eye protection | Hand protection (gloves) |
| CEPE_SWED_PW_01_v1 | Professional spray painting, near-industrial setting | Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation | Preparation | 5 | 4-8h | 70% | N | Y | Y |
| | | | Loading & handling coated parts | 8a | | 70% | N | Y | Y |
| | | | Application | 11 | | 80% | Y (90%) | Y | Y |
| | | | Drying/curing | 4 | | 70% | N | N | N |
| | | | Cleaning | 5 | | 70% | N | Y | Y |
| | | | Waste management | 8a | | 70% | N | Y | Y |

Excerpt from CEPE overview sheet. SWEDs will also be made available as part of the use maps package, in the standard template for use by registrants

Corresponding
SUMI



CEPE's approach

The SUMI document

| | |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| SUMI Safe Use of Mixtures Information for end-users |  |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

Title: Professional spray painting, near-industrial setting

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

This safe use information is linked to SWED CEPE_PW_01_v1

Operational Conditions

Maximum duration of individual exposure: covers daily use up to 8 hours, 225 days per year

| Contributing activity | Ventilation | Ventilation - air changes/hr |
|-----------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Preparation of material for application | Enhanced (mechanical) room ventilation | 5-10 |
| Loading of application equipment and handling of coated parts before curing | Enhanced (mechanical) room ventilation | 5-10 |
| Application | Local exhaust ventilation, spray booth or equivalent | Refer to relevant technical standards (e.g. EN 12215) |
| Drying/curing | Enhanced (mechanical) room ventilation | 5-10 |
| Application equipment cleaning | Enhanced (mechanical) room ventilation | 5-10 |
| Waste management | Enhanced (mechanical) room ventilation | 5-10 |

Risk Management Measures

| Contributing activity | Respiratory | Eye | Hands |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------|
| Preparation of material for application | None | Use eye protection according to EN 166 | Wear suitable gloves tested to EN374 |
| Loading of application equipment and handling of coated parts before curing | None | Use eye protection according to EN 166 | Wear suitable gloves tested to EN374 |
| Application | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10 | Use eye protection according to EN 166 | Wear suitable gloves tested to EN374 |
| Drying/curing | None | None | None |
| Application equipment cleaning | None | Use eye protection according to EN 166 | Wear suitable gloves tested to EN374 |
| Waste management | None | Use eye protection according to EN 166 | Wear suitable gloves tested to EN374 |

See chapter 8 of this Safety Data Sheet for specifications



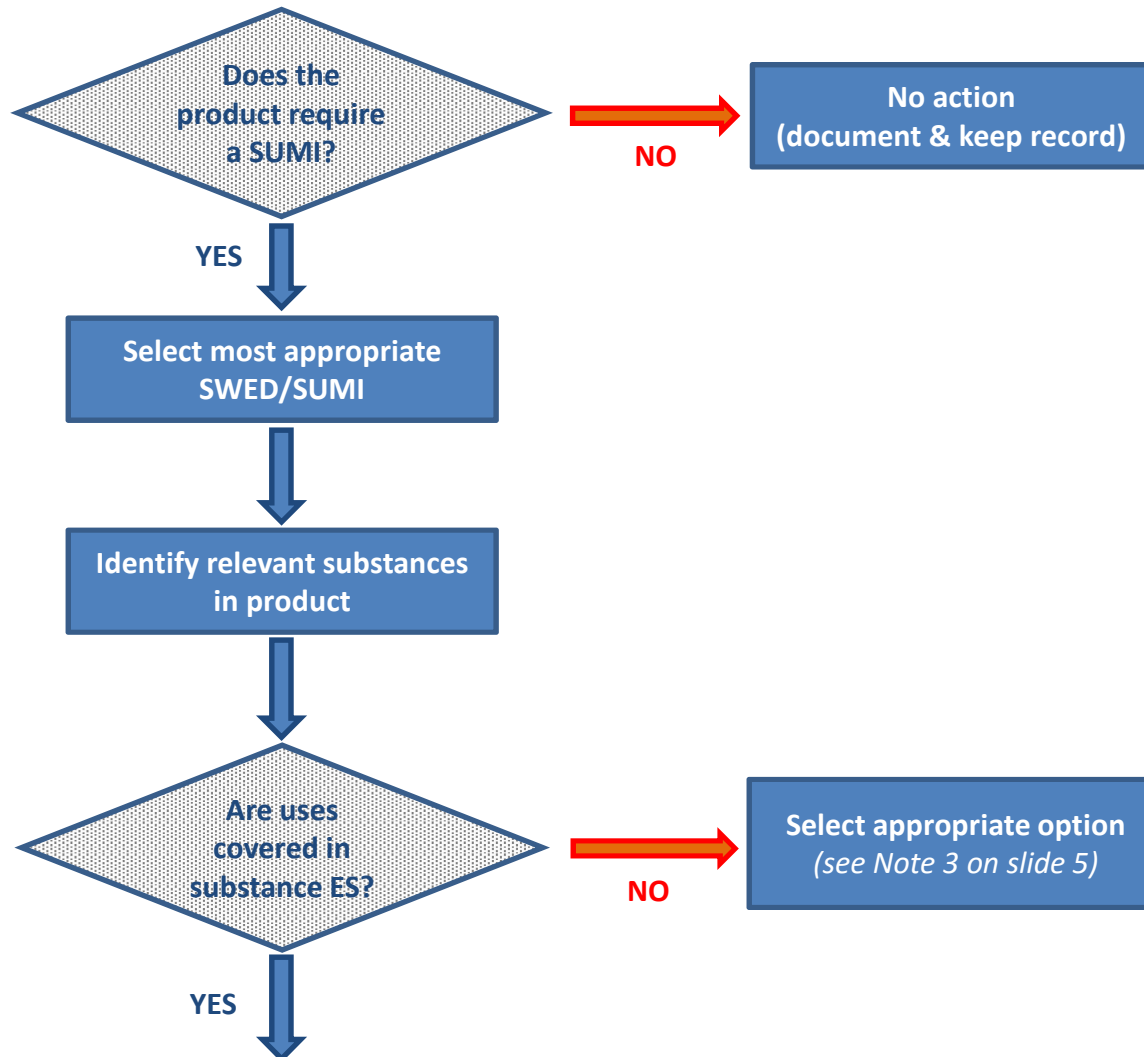
Disclaimer

The information in this Safe Use of Mixtures Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is the direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

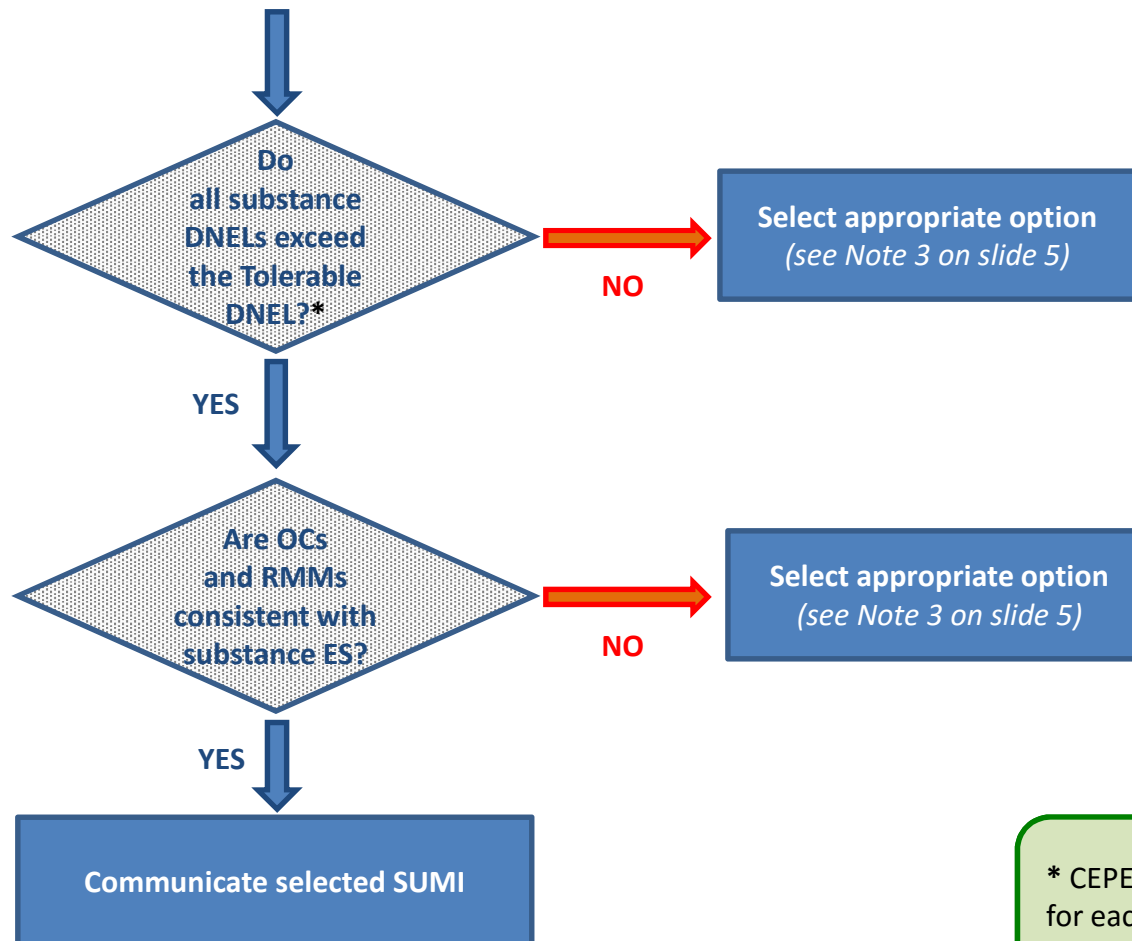
Applying CEPE's SWED/SUMI approach

Workflow for formulator (1)



Applying CEPE's SWED/SUMI approach

Workflow for formulator (2)



* CEPE has defined the applicability domain for each SWED by calculating assumed exposure levels based on ECETOC TRA v.3

Closing thoughts

SWEDs and SUMIs in a nutshell

- Are elements of the use maps package, focusing on **human health for workers**
- Prepared by **sector associations**
 - DUCG members have initiated this project, but other DU sectors can also consider developing SWEDs and SUMIs
- Developed mostly for **classified** mixtures
- Developed for the **majority of uses** in a sector (“80:20 rule”)
 - Sectors may have defined ‘uses’ in different ways
- Supporting **formulators** in complying with their REACH duties
- Helping to improve the **communication** in the supply chain



DUCC



Downstream Users of Chemicals Co-ordination group



**Visit CEPE or EFCC in the
parallel sessions
Thank you!**

Janice Robinson

www.ducc.eu

www.cepe.org