# Integrated testing strategy for repeated dose toxicity under REACH

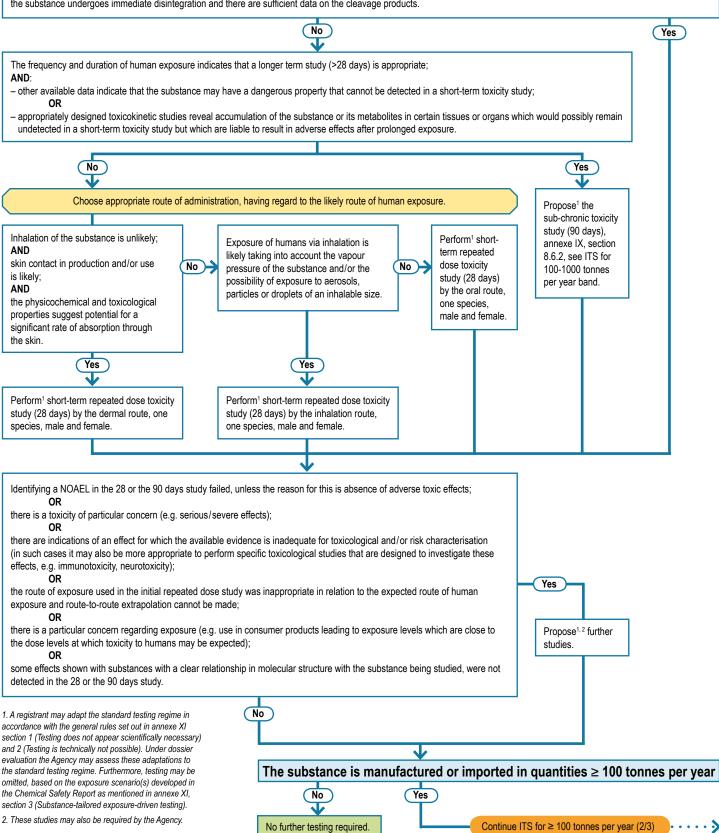


10-100 tonnes per year band

### The substance is manufactured or imported in quantities ≥ 10 tonnes per year

A reliable sub-chronic (90 days) or chronic toxicity study is available, provided that an appropriate species, dosage, solvent and route of administration were used;

the substance undergoes immediate disintegration and there are sufficient data on the cleavage products.







# Integrated testing strategy for repeated dose toxicity under REACH



100-1000 tonnes per year band

### The substance is manufactured or imported in quantities ≥ 100 tonnes per year

A reliable short-term toxicity study (28 days) is available showing severe toxicity effects according to the criteria for classifying the substance as R48, for which the observed NOAEL-28 days, with the application of an appropriate uncertainty factor, allows the extrapolation towards the NOAEL-90 days for the same route of exposure;

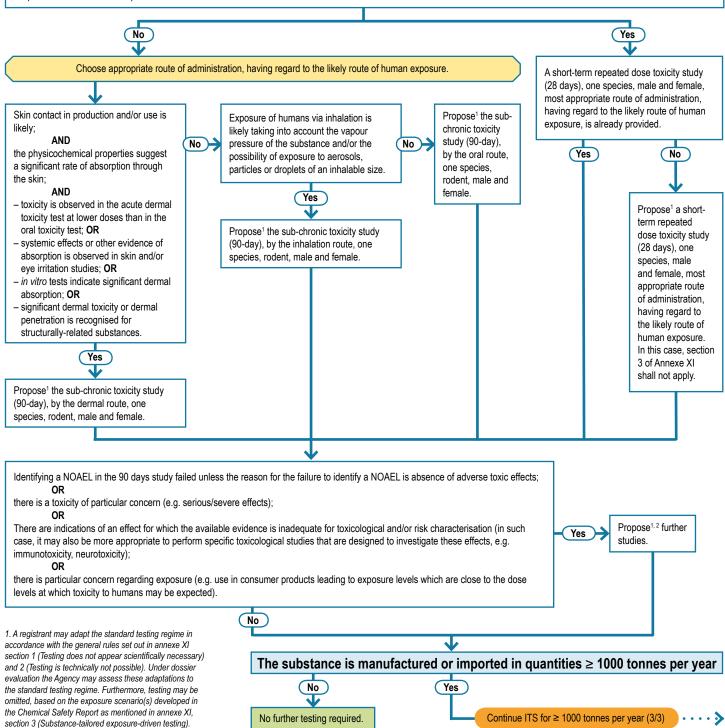
a reliable chronic toxicity study is available, provided that an appropriate species and route of administration were used;

### OR

the substance undergoes immediate disintegration and there are sufficient data on the cleavage products (both for systemic effects and effects at the site of uptake);

#### OR

the substance is unreactive, insoluble and not inhalable and there is no evidence of absorption and no evidence of toxicity in a 28-day "limit test", particularly if such a pattern is coupled with limited human exposure.





2. These studies may also be required by the Agency.



### The substance is manufactured or imported in quantities ≥ 1000 tonnes per year

The frequency and duration of human exposure indicates that a longer term study is appropriate;

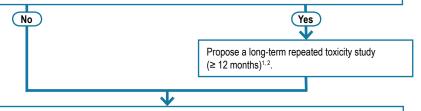
 serious or severe toxicity effects of particular concern were observed in the 28-day or 90-day study for which the available evidence is inadequate for toxicological evaluation or risk characterisation;

#### OR

 effects shown with substances with a clear relationship in molecular structure with the substance being studied were not detected in the 28-day or 90-day study;

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- the substance may have a dangerous property that cannot be detected in a 90-day study.



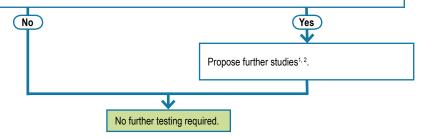
There is a toxicity of particular concern (e.g. serious/severe effects);

#### OR

There are indications of an effect for which the available evidence is inadequate for toxicological evaluation and/or risk characterisation (in such case, it may also be more appropriate to perform specific toxicological studies that are designed to investigate these effects (e.g. immunotoxicity, neurotoxicity);

#### OR

There is particular concern regarding exposure (e.g. use in consumer products leading to exposure levels which are close to the dose levels at which toxicity is observed).



<sup>2.</sup> These studies may also be required by the Agency.





<sup>1.</sup> A registrant may adapt the standard testing regime in accordance with the general rules set out in annexe XI section 1 (Testing does not appear scientifically necessary) and 2 (Testing is technically not possible). Under dossier evaluation the Agency may assess these adaptations to the standard testing regime. Furthermore, testing may be omitted, based on the exposure scenario(s) developed in the Chemical Safety Report as mentioned in annexe XI, section 3 (Substance-tailored exposure-driven testing).