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| **Assessment summary table – Bridging an existing risk assessment for soil organisms** | |
| **Product name & formulation type:** | **Active ingredient name:** |
| **Registration file number:** |
| **Name of the assessor:** | **Date of the assessment:** |

| *Comparison of parameters that may influence soil organisms hazard and exposure, between a reference risk assessment and a local situation under review* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Exposure parameter** | | ***Possible effect on the risk of the pesticide*** | **Describe/quantify the parameter for:** | | | | **Toxicity/Exposure in local situation likely to be higher/lower/similar to the reference assessment?** |
| ***Reference risk assessment*** | | | ***Local situation under review*** |
|  | **Product** | | | | | | |
| 1 | Product name | *--* |  | | |  |  |
| 2 | Formulation type | *Some formulations types (e.g. EC formulations) potentially higher toxicity* |  | | |  |  |
|  | **Ecotoxicology** (only if the soil organism species are different)  *Note: Presently, only few standardised data exist for tropical / semi-arid soil organisms; however, any existing studies may be evaluated and compared to temperate ecotoxicological data* | | | | | | |
| 3 | Chronic NOEC (mg/kg soil) (specify species) | *Lower NOEC 🡺 higher impact (for similar exposure levels)* |  | | |  |  |
| 4 | Acute LC50 (mg/kg soil)  (specify species) | *Lower LC50 🡺 higher impact (for similar exposure levels)* |  | | |  |  |
| 7 | Other toxicity data (specify) |  |  | | |  |  |
|  | **Environmental fate** (only if pesticide degradation studies have been conducted in different soils or environmental conditions) | | | | | | |
| 8 | DT50-soil (days)(specify soil type, temperature, humidity) |  |  | | |  |  |
|  | **Exposure – Crop** | | | | | | |
| 9 | Crop(s) | *Determinant for factors below* |  | | |  |  |
| 10 | Period(s) in the growing season when the pesticide is applied to the crop | *Determinant for factors below* |  | | |  |  |
| 11 | Crop cover | *▶ Higher crop cover 🡺 higher crop interception rate 🡺 lower exposure risk* |  | | |  |  |
| 12 | Soil cover, with litter or mulch | *▶ For organisms feeding on organic debris: more organic debris 🡺 higher exposure risk*  *▶ For organisms feeding on soil: more organic debris 🡺 lower exposure risk (since its shields the soil)* |  | | |  |  |
| 13 | For seed treatments: sowing spacing  (note: for seed treatment, type of crop is not relevant) | *▶* *Closer sowing spacing 🡺 higher exposure risk* |  | | |  |  |
|  | **Exposure - environment** | | | | | | |
| 14 Soil type | | *▶ Not important for first tier assessments based on studies with artificial soils: expected to cover broad range of soil types with the help of assessment factors.*  *▶ Important for higher tier assessments based on field studies.*  *However, at present no clear extrapolations can be made of pesticide effects on soil organisms between soil types (requires further meta-analysis to identify broad soil categories that can be expected to be similar with respect to risk)* | |  |  | |  |
| 15Rainfall | | *▶ Higher rainfall may cause more leaching and runoff 🡺 lower exposure risk in topsoil*  *▶ Higher rainfall may cause more wash-off from plants 🡺 higher exposure risk* | |  |  | |  |
| 16 Temperature | | *▶ Higher temperature 🡺 generally faster degradation (if sufficient moisture; may not apply for arid conditions)* | |  |  | |  |
|  | **Exposure – Pesticide application** | | | | | | |
| 17 | Mode of application | *▶ Some modes of application (e.g. whole field spray applications at low crop stage 🡺 higher exposure risk*  *▶Some modes of application (e.g., direct soil incorporation and bare soil applications) 🡺 higher exposure risk*  *▶ Some modes of application (e.g. row treatments) 🡺 lower exposure risk*  *▶Some modes of application (, stem injections, brushing) 🡺 lower exposure risk* |  | | |  |  |
| 18 | Dose rate (g a.i./ha) | *For the same pesticide product: higher dose rate 🡺 higher exposure/impact risk* |  | | |  |  |
| 19 | Application frequency | *Higher application frequency 🡺 higher exposure risk* |  | | |  |  |
| 20 | Application interval | *Shorter interval between applications 🡺 higher exposure risk* |  | | |  |  |
| Overall comparison between the situation under review and the existing risk assessment: | |  | | | | | |