NAME OF THE ORGANISM: Lepidoglyphus destructor (GLYCDE)

GENERAL INFORMATION ON THE PEST

Name as submitted in the project specification (if different to the preferred name):

Acarina
Pest category:

Acari **1- Identity of the pest/Level of taxonomic listing:**
Is the organism clearly a single taxonomic entity and can it be adequately distinguished from other entities of the same rank?

Yes
Is the pest defined at the species level or lower?:

Yes
Can listing of the pest at a taxonomic level higher than species be supported by scientific reasons or can species be identified within the taxonomic rank which are the (main) pests of concern?

* Not relevant: Vegetable seed sector

Is it justified that the pest is listed at a taxonomic rank below species level?

Not relevant
Conclusion:

* Candidate: Vegetable seed sector

Justification (if necessary):

In the RNQP Questionnaire, LV supported regulation of all Acarida as several species of pests are considered to be important and cause similar damage. CZ suggested to only list the following species: Acarus siro, Lepidoglyphus destructor and Tyrophagus putrescentiae, the only reason being that these species are currently listed in their national regulation. Later, in July 2017, ESA confirmed that they would support deregulation: seeds are not considered to be the main pathway, economic impact is acceptable (not enough humidity in normal storage conditions).
In a publication, twenty-one types of seed samples (mainly vegetable and grass seed) were analysed in laboratory and 60% arthropod infestation (14 Acarina, 5 Psocoptera species) was found. The seeds of beet, grass, onion, radish and lettuce were most sensitive to infestation. Acarus siro was a dominant mite pest from all aspects (frequency, abundance and seed diversity infestation), followed by Tyrophagus putrescentiae, Tarsonemus granarius and Lepidoglyphus destructor. Cheyletus eruditus was a dominant predatory mite. Lepinotus patruelis was the most frequent psocid pest (Kucerova Z., Horak P., 2004). **2 – Status in the EU:**

Is this pest already a quarantine pest for the whole EU?

No
Presence in the EU:

Yes
Conclusion:

candidate
Justification (if necessary):

(evaluated with 'Acarida' alltogether)

HOST PLANT N°1: Valerianella locusta (VLLLO) for the Vegetable seed sector.

Origin of the listing:

RNQP Questionnaire
Plants for planting:

Seeds **3 - Is the pest already listed in a PM4 standard on the concerned host plant?**

No
Conclusion:

Evaluation continues **4 - Are the listed plants for planting the main\* pathway for the "pest/host/intended use" combination? (\*: significant compared to others):**

No
Conclusion:

Not candidate

Justification:

Acarida is an order of the class Arachnida, including pests, such as the mites, ticks and itch-insects. Acarus siro is the most abundant and frequent mite to infest stored-food products, including seeds and bulbs, causing allergies and transmitting mycotoxin producing fungi. It is often associated with Lepidoglyphus destructor and Tyrophagus putrescentiae. The major damage to whole cereal grains and other seeds, for example oilseed rape, linseed, carrot, beet, maize and pulses, is caused by the preferential attacks that mites make on the germ, which causes losses in germination viability (Plantwise, 2016; Ždhacek˜árková, 1996). Mites will also occur in the natural environment in plant debris, discarded seed or in soils. Their presence in harvested seed for further sowing can therefore have a detrimental effect due to lack of germination or vigour, therefore seed is a pathway. However the SEWG considered that, if maintained under appropriate storage conditions, seed should not be a significant pathway for mites compared to other pathways. **CONCLUSION ON THE STATUS:**

Disqualified: Evaluated with Acarida altogether. If maintained under appropriate storage conditions, seed should not be a significant pathway for mites compared to other pathways. **8 - Tolerance level:**
Is there a need to change the Tolerance level:

No
Proposed Tolerance levels:

Not recommended for the RNQP status. **9 - Risk management measures:**
Is there a need to change the Risk management measure:

No
Proposed Risk management measure:

Not recommended for the RNQP status. **REFERENCES:**