

Technical questionnaire

sunflower

CPVO/TQ-081/1

Mandatory fields or sections are marked with an asterisk ()*

01 . Botanical taxon: name of the genus, species or sub-species to which the variety belongs:

Helianthus annuus L.

Other species (please specify)

02 . Application code:

For office use only

03 . Breeder's reference:

Breeder's Ref.

04 . Information on the breeding scheme and propagation of the variety *

04 . 01 . Type of material *

04 . 01.01 . Inbred line

(this question could be confidential)

male sterile line A

male fertile line B (maintener of sterility)

male fertile line R (restorer of fertility)

04 . 01.02 . Hybrid

(this question could be confidential)

male sterile single hybrid

male fertile single hybrid

three-way cross hybrid

04 . 01.03 . Open-pollinated variety

(this question could be confidential)

open-pollinated variety

04 . 04 . Breeding scheme *

seedling	Indicate parent varieties
mutation	Indicate parent variety
discovery	Indicate where, when and how the variety has been developed
other	Please specify

04 . 05 . Method of propagation of the variety *

cuttings
 in vitro propagation
 seed
 other

04 . 06 . In the case of seed propagated varieties, method of production:

(this question could be confidential)

self-pollination	
cross pollination	Please provide details
hybrid	Please provide details

05 . Characteristics of the variety to be indicated *

(the number in brackets refers to the corresponding characteristic in the CPVO Technical Protocol; please mark the state of expression which best corresponds)

05 . 01 . Leaf: green colour (4) (G) *

1 - very light	
2 - very light to light	
3 - light	H 52 9.1.1
4 - light to medium	
5 - medium	HA 821
6 - medium to dark	
7 - dark	HA303
8 - dark to very dark	
9 - very dark	



05 . 02 . Leaf: blistering (5) (G) *

1 - absent or very weak

2 - very weak to weak

3 - weak HA 342, RHA 273

4 - weak to medium

5 - medium HA 291

6 - medium to strong

7 - strong HA 303, RHA 361

8 - strong to very strong

9 - very strong

05 . 03 . Time of flowering (14) (G) *

1 - very early HA 302, RHA 381

2 - very early to early

3 - early RHA 273

4 - early to medium

5 - medium RHA 274

6 - medium to late

7 - late RHA 271

8 - late to very late

9 - very late RHA 361

05 . 04 . Ray floret: colour (19) (G) *

1 - yellowish white

2 - light yellow

3 - medium yellow HA 89

4 - orange yellow RHA 361

5 - orange CM 587, RHA 295

6 - purple

7 - reddish brown

8 - multicoloured



05 . 05 . Plant: natural height (28) (G) *

1 - very short	HA 379
2 - very short to short	
3 - short	HA 291
4 - short to medium	
5 - medium	RHA 801
6 - medium to tall	
7 - tall	H 52.9.1.1
8 - tall to very tall	
9 - very tall	

05 . 06 . Plant: branching (excluding environmental branching) (29) (G) *

1 - absent	HA 89
9 - present	RHA 271

05 . 07 . Seed: main colour (38) (G) *

1 - white	
2 - whitish grey	
3 - grey	TRISUN 860
4 - light brown	
5 - medium brown	RHA 273
6 - dark brown	
7 - black	HA 89
8 - purple	

05 . 08 . Seed: stripes on margin (39) (G) *

1 - none or very weakly expressed	RHA 273
2 - weakly expressed	HA 52.9.1.1
3 - strongly expressed	HA 89

05 . 09 . Seed: stripes between margins (40) (G) *

1 - none or very weakly expressed	RHA 273
2 - weakly expressed	RHA 293
3 - strongly expressed	HA 89

06 . Similar varieties and differences from these varieties

Please note that information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing.

06 . 01 . Are there any similar varieties known? *

Yes

No



06 . 02 . Similar varieties and differences from these varieties: *

Denomination of similar variety	Characteristic in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety

07 . Additional information which may help to distinguish the variety ***07 . 01 . Resistance to pests and diseases ***

Downy Mildew

Precise the races

rust

other pests and diseases

Please specify

07 . 02 . In addition to the information provided in sections 05 and 06, are there any additional characteristics which may help to distinguish the variety? *

Yes, specify

No

07 . 03 . Are there any special conditions for growing the variety or conducting the examination? *

Yes, specify

No

07 . 04 . Other information ***07 . 04.01 . Main use ***

oil and cake

birds and direct human consumption

ornamental

other use (specify)

Please add a picture(s) under point 07.05

07 . 04.02 . Other information *

Yes, specify

No

07 . 05 . Photo *A representative colour photo of the variety must be **added** to the technical questionnaire.**07 . 05.01 . Details of the picture(s)**

Place where the picture(s) was(ere) taken

Date of the picture(s) (month and year)



07 . 05.02 . Attached picture(s) *

Where appropriate, please provide additional details on the picture(s) provided (i.e. deviations of the colours on the picture compared to the plant/flower)

08 . GMD-information *

08 . 01 . GMD-information required *

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.

Yes

If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

No

08 . 02 . In case of GMD, joint attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the above-mentioned Directive.

09 . Information on plant material to be examined

The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. Consequently the plant material to be examined should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

09 . 01 . Micro-organisms (e.g. virus, bacteria, phytoplasma) *

Yes, specify

No

09 . 02 . Chemical treatment (e.g. growth retardant or pesticide) *

Yes, specify

No

09 . 03 . Tissue culture *

Yes, specify

No

09 . 04 . Other factors *

Yes, specify

No



10. Possible place of the technical examination

In case the CPVO needs to arrange a technical examination for this candidate variety, there might be more than one examination office entrusted by the CPVO suitable to grow your variety. In this case, the Office will decide on the place of the technical examination but you might wish to express here a preference in respect of an examination office. The available entrusted examination offices for that species can be found in the S3 Gazette under: <http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/entrusted-examination-offices>

You will also find in the S2 Gazette further information about submission of plant material and deadlines for numerous major species: <http://cpvo.europa.eu/en/applications-and-examinations/technical-examinations/submission-of-plant-material-s2-publication>

10. 01 . Country where the examination could take place

Country

Attached document(s)

The following forms or documents are attached to this application : please tick the relevant boxes

- Application form, confidential part (original only)
- Technical questionnaire (original only)
- Technical questionnaire, confidential part (original only)
- Form of designation of a procedural representative
- Documentary evidence of entitlement to file an application
- Priority claim (certified copy of the first application)
- Form "Details of payment"
- Photographs (in case of fruit and ornamental varieties)
- Copy of the relevant written release consent (for GMOs)
- Others, please specify

Remark



DECLARATIONS *

I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct.

Place

Date

Name

Signature

