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THE EUROPEAN UNION**

**Brussels, 14 June 2006 (15.06)  
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**PROPOSAL**

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from: European Commission

dated: 14 June 2006

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Subject: Proposal for a Directive of the European Parliament and of the Council  
on the contained use of genetically modified micro-organisms  
(Codified version)

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Delegations will find attached a proposal from the Commission, COM(2006) 286 final submitted under a covering letter from Mr Jordi AYET PUIGARNAU to Mr Javier SOLANA, Secretary-General/High Representative.

In accordance with the method approved on 10 June 2003, delegations are invited to communicate their observations on the codification proposal before 20 July 2006.

Encl.: COM(2006) 286 final



COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 14.6.2006  
COM(2006) 286 final

2006/0100 (COD)

Proposal for a

**DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

**on the contained use of genetically modified micro-organisms**

(Codified version)

(presented by the Commission)

## EXPLANATORY MEMORANDUM

1. In the context of a people's Europe, the Commission attaches great importance to simplifying and clarifying Community law so as to make it clearer and more accessible to the ordinary citizen, thus giving him new opportunities and the chance to make use of the specific rights it gives him.

This aim cannot be achieved so long as numerous provisions that have been amended several times, often quite substantially, remain scattered, so that they must be sought partly in the original instrument and partly in later amending ones. Considerable research work, comparing many different instruments, is thus needed to identify the current rules.

For this reason a codification of rules that have frequently been amended is also essential if Community law is to be clear and transparent.

2. On 1 April 1987 the Commission therefore decided<sup>1</sup> to instruct its staff that all legislative acts should be codified after no more than ten amendments, stressing that this is a minimum requirement and that departments should endeavour to codify at even shorter intervals the texts for which they are responsible, to ensure that the Community rules are clear and readily understandable.
3. The Conclusions of the Presidency of the Edinburgh European Council (December 1992) confirmed this<sup>2</sup>, stressing the importance of codification as it offers certainty as to the law applicable to a given matter at a given time.

Codification must be undertaken in full compliance with the normal Community legislative procedure.

Given that no changes of substance may be made to the instruments affected by codification, the European Parliament, the Council and the Commission have agreed, by an interinstitutional agreement dated 20 December 1994, that an accelerated procedure may be used for the fast-track adoption of codification instruments.

4. The purpose of this proposal is to undertake a codification of Council Directive 90/219/EEC of 23 April 1990 on the contained use of genetically modified micro-organisms<sup>3</sup>. The new Directive will supersede the various acts incorporated in it<sup>4</sup>; this proposal fully preserves the content of the acts being codified and hence does no more than bring them together with only such formal amendments as are required by the codification exercise itself.
5. The codification proposal was drawn up on the basis of a preliminary consolidation, in all official languages, of Directive 90/219/EEC and the instruments amending it, carried out by the Office for Official Publications of the European Communities, by means of a data-processing system. Where the Articles have been given new

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<sup>1</sup> COM(87) 868 PV.

<sup>2</sup> See Annex 3 to Part A of the Conclusions.

<sup>3</sup> Carried out pursuant to the Communication from the Commission to the European Parliament and the Council – Codification of the Acquis communautaire, COM(2001) 645 final.

<sup>4</sup> See Annex VI, Part A of this proposal.

numbers, the correlation between the old and the new numbers is shown in a table contained in Annex VII to the codified Directive.

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↓ 90/219/EEC (adapted)

2006/0100 (COD)

Proposal for a

**DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

**on the contained use of genetically modified micro-organisms**

**(Text with EEA relevance)**

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article  $\boxtimes$  175(1)  $\boxtimes$  thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Economic and Social Committee<sup>5</sup>,

Having regard to the opinion of the Committee of the Regions<sup>6</sup>,

Acting in accordance with the procedure laid down in Article 251 of the Treaty<sup>7</sup>,

Whereas:

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- (1) Council Directive 90/219/EEC of 23 April 1990 on the contained use of genetically modified micro-organisms<sup>8</sup> has been substantially amended several times<sup>9</sup>. In the interests of clarity and rationality the said Directive should be codified.

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↓ 90/219/EEC Recital 1 (adapted)

- (2) Under the Treaty, action by the Community relating to the environment shall be based on the principle that preventive action shall be taken and shall have as its objective

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<sup>5</sup> OJ C [...], [...], p. [...].

<sup>6</sup> OJ C [...], [...], p. [...].

<sup>7</sup> OJ C [...], [...], p. [...].

<sup>8</sup> OJ L 117, 8.5.1990, p. 1. Directive as last amended by Regulation (EC) No 1882/2003 of the European Parliament and of the Council (OJ L 284, 31.10.2003, p. 1).

<sup>9</sup> See Annex VI, Part A.

☒ , among other things, ☒ to preserve, protect and improve the environment and to protect human health.

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↓ 90/219/EEC Recital 2 (adapted)

- (3) Measures concerning the evaluation and best use of biotechnology with regard to the environment are a priority area on which Community action should concentrate.
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↓ 90/219/EEC Recital 3 (adapted)

- (4) The development of biotechnology is such as to contribute to the economic expansion of the Member States. This implies that genetically modified micro-organisms ☒ (GMMs) ☒ will be used in operations of various types and scale.
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↓ 90/219/EEC Recital 4 (adapted)

- (5) The contained use of ☒ GMMs ☒ should be carried out in such a way as to limit their possible negative consequences for human health and the environment, due attention being given to the prevention of accidents and the control of waste.
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↓ 98/81/EC Recital 5 (adapted)

- (6) GMMs which are disposed of without appropriate provisions for specific containment measures to limit their contact with the general population and the environment do not fall within the scope of the present Directive. Other Community legislation such as ☒ Directive 2001/18/EC of the European Parliament and of the Council of 12 March 2001 ☒ on the deliberate release into the environment of genetically modified organisms<sup>10</sup> may apply.
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↓ 90/219/EEC Recital 5

- (7) Micro-organisms, if released into the environment in one Member State in the course of their contained use, may reproduce and spread, crossing national frontiers and thereby affecting other Member States.
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↓ 90/219/EEC Recital 6 (adapted)

- (8) In order to bring about the safe development of biotechnology throughout the Community, it is necessary to establish common measures for the evaluation and
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<sup>10</sup> OJ L ☒ 106, 17.4.2001, p. 1 ☒. Directive as last amended by ☒ Regulation (EC) No 1830/2003 of the European Parliament and of the Council (OJ L 268, 18.10.2003, p. 24) ☒.

reduction of the potential risks arising in the course of all operations involving the contained use of ☒ GMMs ☒ and to set appropriate conditions of use.

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↓ 90/219/EEC Recital 7 (adapted)

- (9) The precise nature and scale of risks associated with ☒ the contained use of GMMs ☒ are not yet fully known and the risk involved must be assessed case by case. To evaluate the risk to human health and the environment, it is necessary to lay down requirements for risk assessment.
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↓ 98/81/EC Recital 2 (adapted)

- (10) Contained uses of GMMs should be classified in relation to the risks they present to human health and the environment. Such classification should be in line with international practice and based on an assessment of the risk.
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↓ 98/81/EC Recital 3

- (11) In order to ensure a high level of protection, the containment and other protective measures applied to a contained use must correspond to the classification of the contained use. In case of uncertainty, the appropriate containment and other protective measures for the higher classification should be applied until less stringent measures are justified by appropriate data.
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↓ 98/81/EC Recital 7

- (12) For all activities involving GMMs the principles of good microbiological practice and good occupational safety and hygiene should apply in accordance with relevant Community legislation.
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↓ 90/219/EEC Recital 9 and  
98/81/EC Recital 4 (adapted)

- (13) Appropriate containment measures should be applied at the various stages of an operation to control emissions ☒ and the disposal of material from contained uses of GMMs, ☒ and to prevent accidents.
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↓ 90/219/EEC Recital 10  
(adapted)

- (14) Any person, before undertaking for the first time the contained use of a ☒ GMM ☒ in a particular installation, should forward to the competent authority a notification so that the authority may satisfy itself that the proposed installation is appropriate to carry

out the activity in a manner that does not present a hazard to human health and the environment.

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↓ 90/219/EEC Recital 11  
(adapted)

- (15) It is also necessary to establish appropriate procedures for the case-by-case notification of specific operations involving the contained use of ☒ GMMs ☒, taking account of the degree of risk involved.
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↓ 90/219/EEC Recital 12

- (16) In the case of operations involving high risk, the consent of the competent authority should be given.
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↓ 98/81/EC Recital 8

- (17) The containment and other protective measures applied to contained uses should be reviewed periodically.
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↓ 90/219/EEC Recital 13  
(adapted)

- (18) It may be considered appropriate to consult the public on the contained use of ☒ GMMs ☒.
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↓ 98/81/EC Recital 9 (adapted)

- (19) People employed in contained uses should be consulted in accordance with the requirements of relevant Community legislation, in particular ☒ Directive 2000/54/EC of the European Parliament and of the Council of 18 September 2000 ☒ on the protection of workers from risks related to exposure to biological agents at work (seventh individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)<sup>11</sup>.
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↓ 90/219/EEC Recital 14

- (20) Appropriate measures should be taken to inform any person liable to be affected by an accident on all matters relating to safety.
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<sup>11</sup> OJ L ☒ 262, 17.10.2000, p. 21 ☒.

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↓ 90/219/EEC Recital 15

(21) Emergency plans should be established to deal effectively with accidents.

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↓ 90/219/EEC Recital 16

(22) If an accident occurs, the user should immediately inform the competent authority and communicate the information necessary for assessing the impact of that accident and for taking the appropriate action.

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↓ 90/219/EEC Recital 17

(23) It is appropriate for the Commission, in consultation with the Member States, to establish a procedure for the exchange of information on accidents and for the Commission to set up a register of such accidents.

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↓ 90/219/EEC Recital 18  
(adapted)

(24) The contained use of ☒ GMMs ☒ throughout the Community should be monitored, and to this end Member States should supply certain information to the Commission.

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↓ 98/81/EC Recitals 12 and 13  
(adapted) and 2001/204/EC  
Recital 2 (adapted)

(25) ☒ In order to be considered safe for human health and the environment, GMMs should meet the list of criteria as defined in Annex II, Part B. To take account of the pace at which biotechnology is advancing, the nature of the criteria to be developed and the limited scope of this list, it is appropriate for the Council to revise those criteria, which should, where necessary, be supplemented by guidance notes to facilitate their application. ☒

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(26) The measures necessary for the implementation and for the adaptation to technical progress of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission<sup>12</sup>.

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<sup>12</sup> OJ L 184, 17.7.1999, p. 23.

- (27) This Directive should be without prejudice to the obligations of the Member States relating to the time-limits for transposition into national law of the Directives set out in Annex VI, Part B,

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↓ 90/219/EEC (adapted)

☒ HAVE ☒ ADOPTED THIS DIRECTIVE:

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↓ 90/219/EEC

#### *Article 1*

This Directive lays down common measures for the contained use of genetically modified micro-organisms with a view to protecting human health and the environment.

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↓ 98/81/EC Art. 1 pt. 1 (adapted)  
→<sub>1</sub> Corrigendum, 98/81/EC  
(OJ L 93, 8.4.1999, p. 27)  
(adapted)

#### *Article 2*

For the purposes of this Directive ☒ the following definitions shall apply ☒:

- (a) “micro-organism” ☒ means ☒ any microbiological entity, cellular or non-cellular, capable of replication or of transferring genetic material, including viruses, viroids, animal and plant cells in culture;
- (b) “genetically modified micro-organism” (GMM) ☒ means ☒ a micro-organism in which the genetic material has been altered in a way that does not occur naturally by mating and/or natural recombination; within the terms of this definition:
- (i) genetic modification occurs at least through the use of the techniques listed in Annex I, Part A;
  - (ii) the techniques listed in Annex I, Part B, are not considered to result in genetic modification;
- (c) “contained use” ☒ means ☒ any activity in which micro-organisms are genetically modified or in which such GMMs are cultured, stored, transported, destroyed, disposed of or used in any other way, and for which specific containment measures are used →<sub>1</sub> to limit their contact with, and to provide a high level of safety for, the general population and the environment; ←

- (d) “accident”  means  any incident involving a significant and unintended release of GMMs in the course of their contained use which could present an immediate or delayed hazard to human health or the environment;
- (e) “user”  means  any natural or legal person responsible for the contained use of GMMs;
- (f) “notification”  means  the presentation of the requisite information to the competent authorities of a Member State.

### *Article 3*

1. Without prejudice to Article 4(1) this Directive shall not apply:

- (a) where genetic modification is obtained through the use of the techniques/methods listed in Annex II, Part A; or
- (b) for contained uses involving only types of GMMs meeting the criteria listed in Annex II, Part B which establish their safety for human health and the environment. These types of GMMs shall be listed in Annex II, Part C.

2. Article 4(3) and (6) and Articles 5 to 11 shall not apply to the transport of GMMs by road, rail, inland waterway, sea or air.

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98/81/EC, Art. 1 pt. 1 (adapted)

3. This Directive shall not apply to the storage, culture, transport, destruction, disposal or use of GMMs which have been placed on the market in accordance with Directive  2001/18/EC  or pursuant to other Community legislation, which provides for a specific environmental risk assessment similar to that laid down in the said Directive, provided that the contained use is in accordance with the conditions, if any, of the consent for placing on the market.

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98/81/EC, Art. 1 pt. 1

### *Article 4*

1. Member States shall ensure that all appropriate measures are taken to avoid adverse effects on human health and the environment which might arise from the contained use of GMMs.

2. To this end the user shall carry out an assessment of the contained uses as regards the risks to human health and the environment that these contained uses may pose, using as a minimum the elements of assessment and the procedure set out in Annex III, sections A and B.

3. The assessment referred to in paragraph 2 shall result in the final classification of the contained uses in four classes applying the procedure set out in Annex III, which will result in the assignment of containment levels in accordance with Article 5:

- Class 1: activities of no or negligible risk, that is to say activities for which level 1 containment is appropriate to protect human health as well as the environment.
- Class 2: activities of low risk, that is to say activities for which level 2 containment is appropriate to protect human health as well as the environment.
- Class 3: activities of moderate risk, that is to say activities for which level 3 containment is appropriate to protect human health as well as the environment.
- Class 4: activities of high risk, that is to say activities for which level 4 containment is appropriate to protect human health as well as the environment.

4. Where there is doubt as to which class is appropriate for the proposed contained use, the more stringent protective measures shall be applied unless sufficient evidence, in agreement with the competent authority, justifies the application of less stringent measures.

5. The assessment referred to in paragraph 2 shall especially take into account the question of disposal of waste and effluents. Where appropriate, the necessary safety measures shall be implemented in order to protect human health and the environment.

6. A record of the assessment referred to in paragraph 2 shall be kept by the user and made available in an appropriate form to the competent authority as part of the notification pursuant to Articles 6, 8 and 9 or on request.

#### *Article 5*

1. The user shall apply, except to the extent that point 2 of Annex IV allows other measures to be applied, the general principles and the appropriate containment and other protective measures set out in Annex IV corresponding to the class of the contained use, so as to keep workplace and environmental exposure to any GMMs to the lowest reasonably practicable level, and so that a high level of safety is ensured.

2. The assessment referred to in Article 4(2) and the containment and other protective measures applied shall be reviewed periodically, and forthwith if:

- (a) the containment measures applied are no longer adequate or the class assigned to the contained uses is no longer correct, or
- (b) there is reason to suspect that the assessment is no longer appropriate judged in the light of new scientific or technical knowledge.

#### *Article 6*

When premises are to be used for the first time for contained uses, the user shall be required to submit to the competent authorities, before commencing such use, a notification containing at least the information listed in Annex V, Part A.

### *Article 7*

Following the notification referred to in Article 6, subsequent class 1 contained use may proceed without further notification. Users of GMMs in class 1 contained uses shall be required to keep the record of each assessment referred to in Article 4(6), which shall be made available to the competent authority on request.

### *Article 8*

1. For first and subsequent class 2 contained uses to be carried out in premises notified in accordance with Article 6, a notification containing the information listed in Annex V, Part B shall be submitted.

2. If the premises have been the subject of a previous notification to carry out class 2 or a higher class of contained uses and any associated consent requirements have been satisfied, the class 2 contained use may proceed immediately following the new notification.

The applicant can, however, himself request a decision on a formal authorisation from the competent authority. The decision must be made within a maximum of 45 days from the notification.

3. If the premises have not been the subject of a previous notification to carry out class 2 or a higher class of contained uses, the class 2 contained use may, in the absence of any indication to the contrary from the competent authority, proceed 45 days after submission of the notification referred to in paragraph 1, or earlier with the agreement of the competent authority.

### *Article 9*

1. For first and subsequent class 3 or class 4 contained uses to be carried out in premises notified in accordance with Article 6, a notification containing the information listed in Annex V, Part C shall be submitted.

2. A class 3 or higher class of contained use may not proceed without the prior consent of the competent authority which shall communicate its decision in writing:

- (a) at the latest 45 days after submission of the new notification, in the case of premises which have been the subject of a previous notification to carry out class 3 or a higher class of contained uses and where any associated consent requirements have been satisfied for the same or a higher class than the contained use with which it is intended to proceed;
- (b) at the latest 90 days after submission of the notification, in other cases.

### *Article 10*

1. Member States shall designate the authority or authorities competent to implement the measures which they adopt in application of this Directive and to receive and acknowledge the notifications referred to in Articles 6, 8 and 9.

2. The competent authorities shall examine the conformity of the notifications with the requirements of this Directive, the accuracy and completeness of the information given, the correctness of the assessment referred to in Article 4(2) and the class of contained uses and, where appropriate, the suitability of the containment and other protective measures, the waste management, and emergency response measures.

3. If necessary, the competent authority may:

- (a) ask the user to provide further information or to modify the conditions of the proposed contained use or to amend the class assigned to the contained use(s). In this case the competent authority may require that the contained use, if proposed, does not begin, or, if in progress, is suspended or terminated, until the competent authority has given its approval on the basis of the further information obtained or of the modified conditions of the contained use;
- (b) limit the time for which the contained use should be permitted or subject it to certain specific conditions.

4. For the purpose of calculating the periods referred to in Articles 8 and 9, any period of time during which the competent authority:

- (a) is awaiting any further information which it may have requested from the notifier in accordance with paragraph 3(a), or
- (b) is carrying out a public inquiry or consultation in accordance with Article 12

shall not be taken into account.

### *Article 11*

1. If the user becomes aware of relevant new information or modifies the contained use in a way which could have significant consequences for the risks posed by it, the competent authority shall be informed as soon as possible and the notification pursuant to Articles 6, 8 and 9 shall be modified.

2. If information subsequently becomes available to the competent authority which could have significant consequences for the risks posed by the contained use, the competent authority may require the user to modify the conditions of, or suspend or terminate, the contained use.

### *Article 12*

Where a Member State considers it appropriate, it may provide that the public shall be consulted on aspects of the proposed contained use, without prejudice to Article 18.

### *Article 13*

1. The competent authorities shall ensure that before a contained use commences:

- (a) an emergency plan is drawn up for contained uses where failure of the containment measures could lead to serious danger, whether immediate or delayed, to humans outside the premises and/or to the environment, except where such an emergency plan has been drawn up under other Community legislation;
- (b) information on such emergency plans, including the relevant safety measures to be applied, is supplied in an appropriate manner, and without their having to request it, to bodies and authorities liable to be affected by the accident. The information shall be updated at appropriate intervals. It shall also be made publicly available.

2. The Member States concerned shall at the same time make available to other Member States concerned, as a basis for all necessary consultation within the framework of their bilateral relations, the same information as that which is disseminated to their nationals.

### *Article 14*

1. Member States shall take the necessary measures to ensure that, in the event of an accident, the user shall be required to inform immediately the competent authority specified in Article 10 and provide the following information:

- (a) the circumstances of the accident;
- (b) the identity and quantities of the GMMs concerned;
- (c) any information necessary to assess the effects of the accident on the health of the general population and the environment;
- (d) the measures taken.

2. Where information is given pursuant to paragraph 1, the Member States shall be required to:

- (a) ensure that any measures necessary are taken, and immediately alert any Member States which could be affected by the accident;
- (b) collect, where possible, the information necessary for a full analysis of the accident and, where appropriate, make recommendations to avoid similar accidents in the future and to limit the effects thereof.

### *Article 15*

1. Member States shall be required to:

- (a) consult with other Member States likely to be affected in the event of an accident on the proposed implementation of emergency plans;
- (b) inform the Commission as soon as possible of any accident within the scope of this Directive, giving details of the circumstances of the accident, the identity and quantities of the GMMs concerned, the response measures taken and their effectiveness and an analysis of the accident, including recommendations to limit its effects and avoid similar accidents in the future.

2. The Commission, in consultation with the Member States, shall establish a procedure for the exchange of information pursuant to paragraph 1. It shall also set up and keep at the disposal of the Member States a register of accidents within the scope of this Directive, including an analysis of the causes of the accidents, experience gained and measures taken to avoid similar accidents in the future.

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↓ 90/219/EEC

### *Article 16*

Member States shall ensure that the competent authority organises inspections and other control measures to ensure user compliance with this Directive.

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↓ 98/81/EC, Art. 1 pt. 2

### *Article 17*

1. Member States shall send to the Commission, at the end of each year, a summary report on class 3 and class 4 contained uses notified during that year pursuant to Article 9 including the description, purpose and risks of the contained use(s).

2. Every three years, Member States shall send the Commission a summary report on their experience with this Directive, the first time being on 5 June 2003.

3. Every three years, the Commission shall publish a summary based on the reports referred to in paragraph 2, the first time being on 5 June 2004.

4. The Commission may publish general statistical information on the implementation of this Directive and related matters, as long as it contains no information likely to cause harm to the competitive position of a user.

## Article 18

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↓ 98/81/EC, Art. 1 pt. 2 (adapted)

1. Where its disclosure affects one or more of the items mentioned in Article 4(2) of Directive 2003/4/EC of the European Parliament and of the Council<sup>13</sup>, the notifier may indicate the information in the notifications submitted pursuant to this Directive that should be treated as confidential. Verifiable justification should be given in such cases.

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↓ 98/81/EC, Art. 1 pt. 2

The competent authority shall decide, after consultation with the notifier, which information will be kept confidential and shall inform the notifier of its decision.

2. In no case may the following information, when submitted according to Articles 6, 8 or 9, be kept confidential:

- (a) the general characteristics of the GMMs, name and address of the notifier, and location of use;
  - (b) the class of contained use and the containment measures ;
  - (c) the evaluation of foreseeable effects, in particular any harmful effects on human health and the environment.
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↓ 98/81/EC Art. 1 pt. 2 (adapted)

3. The Commission and the competent authorities shall not divulge to third parties any information deemed to be confidential according to the second subparagraph of paragraph 1 and notified or otherwise provided pursuant to this Directive, and shall protect intellectual property rights relating to the data received.

4. If, for whatever reasons, the notifier withdraws the notification, the competent authority must respect the confidentiality of the information supplied.

## Article 19

Amendments necessary to adapt Annex II, Part A, and Annexes III to V to technical progress and to adapt Annex II, Part C, shall be decided in accordance with the procedure referred to in Article 21 (2).

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<sup>13</sup> OJ L 41, 14.2.2003, p. 26.

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↓ 98/81/EC Art. 1 pt. 3 (adapted)

*Article 20*

Amendments to Annex II, Part B, shall be adopted by the Council acting by qualified majority on a proposal from the Commission.

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↓ 1882/2003, Art. 3, Annex III,  
pt. 19

*Article 21*

1. The Commission shall be assisted by a committee.
2. Where reference is made to this paragraph, Articles 5 and 7 of Decision 1999/468/EC shall apply, having regard to the provisions of Article 8 thereof.

The period laid down in Article 5(6) of Decision 1999/468/EC shall be set at three months.

3. The Committee shall adopt its rules of procedure.
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*Article 22*

Directive 90/219/EEC, as amended by the acts listed in Annex VI, Part A, is repealed, without prejudice to the obligations of the Member States relating to the time-limits for transposition into national law of the Directives set out in Annex VI, Part B.

References to the repealed Directive shall be construed as references to this Directive and shall be read in accordance with the correlation table in Annex VII.

*Article 23*

This Directive shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

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↓ 90/219/EEC

*Article 24*

This Directive is addressed to the Member States.

Done at Brussels,

*For the European Parliament*  
*The President*

*For the Council*  
*The President*

## ANNEX I

### PART A

Techniques of genetic modification referred to in Article 2(b)(i) are, *inter alia*:

1. Recombinant nucleic acid techniques involving the formation of new combinations of genetic material by the insertion of nucleic acid molecules produced by whatever means outside an organism, into any virus, bacterial plasmid or other vector system and their incorporation into a host organism in which they do not naturally occur but in which they are capable of continued propagation.
2. Techniques involving the direct introduction into a micro-organism of heritable material prepared outside the micro-organism, including micro-injection, macro-injection and micro-encapsulation.
3. Cell fusion or hybridisation techniques where live cells with new combinations of heritable genetic material are formed through the fusion of two or more cells by means of methods that do not occur naturally.

### PART B

Techniques referred to in Article 2(b)(ii) which are not considered to result in genetic modification, on condition that they do not involve the use of recombinant-nucleic acid molecules or GMMs made by techniques/methods other than the techniques/methods excluded by Annex II, PART A:

- (1) *in vitro* fertilisation;
  - (2) natural processes such as: conjugation, transduction, transformation;
  - (3) polyploidy induction.
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## ANNEX II

### PART A

Techniques or methods of genetic modification yielding micro-organisms to be excluded from the Directive on condition that they do not involve the use of recombinant-nucleic acid molecules or GMMs other than those produced by one or more of the techniques/methods listed below:

1. Mutagenesis.
2. Cell fusion (including protoplast fusion) of prokaryotic species that exchange genetic material by known physiological processes.
3. Cell fusion (including protoplast fusion) of cells of any eukaryotic species, including production of hybridomas and plant cell fusions.
4. Self-cloning consisting in the removal of nucleic acid sequences from a cell of an organism which may or may not be followed by reinsertion of all or part of that nucleic acid (or a synthetic equivalent) with or without prior enzymic or mechanical steps, into cells of the same species or into cells of phylogenetically closely related species which can exchange genetic material by natural physiological processes where the resulting micro-organism is unlikely to cause disease to humans, animals or plants.

Self-cloning may include the use of recombinant vectors with an extended history of safe use in the particular micro-organisms.

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↓ 2001/204/EC Art. 1 (adapted)

### PART B

#### **Criteria establishing the safety of GMMs for human health and the environment**

This Annex describes in general terms the criteria to be met when establishing the safety of types of GMMs for human health and the environment and their suitability for inclusion in Part C. It will be supplemented by guidance notes for the easy application of such criteria, such notes being developed and, if necessary, amended by the Commission in accordance with the procedure referred to in Article 21 ~~(2)~~.

#### **1. INTRODUCTION**

Types of GMMs listed in Part C in accordance with the procedure referred to in Article 21 ~~(2)~~ are excluded from the scope of this Directive. GMMs will be added to the list on a case-by-case basis and exclusion will relate only to each clearly identified GMM. This exclusion applies only when the GMM is used under conditions of contained use as defined in Article 2(c). It does not apply to the deliberate release of GMMs. For a GMM to be listed in Part C, it must be proved that it meets the criteria given below.

## 2. GENERAL CRITERIA

### 2.1. Strain verification/authentication

Identity of the strain must be precisely established. Modification must be known and verified.

### 2.2. Documented and established evidence of safety

Documented evidence of the safety of the organism must be provided.

### 2.3. Genetic stability

Where any instability could adversely affect safety, evidence of stability is required.

## 3. SPECIFIC CRITERIA

### 3.1. Non-pathogenic

The GMM should not be capable of causing disease or harm to a healthy human, plant or animal. Since pathogenicity includes both toxigenicity and allergenicity, the GMM should therefore be:

#### 3.1.1. *Non-toxigenic*

The GMM should not produce increased toxigenicity as a result of the genetic modification nor be noted for its toxigenic properties.

#### 3.1.2. *Non-allergenic*

The GMM should not produce increased allergenicity as a result of the genetic modification nor be a noted allergen, having, for example, allergenicity comparable in particular with that of the micro-organisms identified in Directive [2000/54/EC](#).

### 3.2. No harmful adventitious agents

The GMM should not harbour known harmful adventitious agents such as other micro-organisms, active or latent, existing alongside or inside the GMM that could cause harm to human health and the environment.

### 3.3. **Transfer of genetic material**

The modified genetic material must not give rise to harm if transferred nor should it be self transmissible or transferable at a frequency greater than other genes of the recipient or parental micro-organism.

### 3.4. **Safety for the environment in the event of a significant and unintended release**

GMMs must not produce adverse effects on the environment, immediate or delayed, should any incident involving a significant and unintended release occur.

GMMs that do not meet the above criteria may not be included in Part C.

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↓ 98/81/EC, Art. 1 pt. 4 (adapted)

## PART C

Types of GMMs which meet the criteria listed in Part B:

... (to be completed in accordance with the procedure  referred to  in Article 21  (2) )

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### ANNEX III

#### **PRINCIPLES TO BE FOLLOWED FOR THE ASSESSMENT REFERRED TO IN ARTICLE 4(2)**

This Annex describes in general terms the elements to be considered and the procedure to be followed to perform the assessment referred to in Article 4(2). It will be supplemented, as regards in particular section B, by guidance notes to be developed by the Commission in accordance with the procedure  referred to  in Article 21  (2) .

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↓ 98/81/EC, Art. 1 pt. 4

#### **A. ELEMENTS OF ASSESSMENT**

1. The following should be considered as potentially harmful effects:

- disease to humans including allergenic or toxic effects,
- disease to animals or plants,
- deleterious effects due to the impossibility of treating a disease or providing an effective prophylaxis,
- deleterious effects due to establishment or dissemination in the environment,
- deleterious effects due to the natural transfer of inserted genetic material to other organisms.

2. The assessment referred to in Article 4(2) should be based on the following:

- (a) the identification of any potentially harmful effects, in particular those associated with:
  - (i) the recipient micro-organism;
  - (ii) the genetic material inserted (originating from the donor organism);
  - (iii) the vector;
  - (iv) the donor micro-organism (as long as the donor micro-organism is used during the operation);
  - (v) the resulting GMM;
- (b) the characteristics of the activity;
- (c) the severity of the potentially harmful effects;
- (d) the likelihood of the potentially harmful effects being realised.

## B. PROCEDURE

3. The first stage in the assessment process should be to identify the harmful properties of the recipient and, where appropriate, the donor micro-organism, any harmful properties associated with the vector or inserted material, including any alteration in the recipient's existing properties.
4. In general, only GMMs which show the following characteristics would be considered appropriate for inclusion in class 1 as defined in Article 4(3):
  - (i) the recipient or parental micro-organism is unlikely to cause disease to humans, animals or plants<sup>14</sup>;
  - (ii) the nature of the vector and the insert is such that they do not endow the GMM with a phenotype likely to cause disease to humans, animals or plants<sup>15</sup>, or likely to cause deleterious effects in the environment;
  - (iii) the GMM is unlikely to cause disease to humans, animals or plants<sup>16</sup> and is unlikely to have deleterious effects on the environment.

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↓ 98/81/EC, Art. 1 pt. 4 (adapted)

5. In order to obtain the necessary information to implement this process the user may firstly take into account relevant Community legislation (in particular Directive [2000/54/EC](#)). International or national classification schemes (e.g. WHO, NIH, etc.) and their revisions due to new scientific knowledge and technical progress may also be considered.

These schemes concern natural micro-organisms and as such are usually based on the ability of micro-organisms to cause disease to humans, animals or plants and on the severity and transmissibility of the disease likely to be caused. Directive [2000/54/EC](#) classifies micro-organisms, as biological agents, into four classes of risk on the basis of potential effects on a healthy human adult. These classes of risk can be used as guidance to the categorisation of the contained use activities in the four classes of risk referred to in Article 4(3). The user may also take into consideration classification schemes referring to plant and animal pathogens (which are usually established on a national basis). The abovementioned classification schemes give only a provisional indication of the risk class of the activity and the corresponding set of containment and control measures.

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↓ 98/81/EC, Art. 1 pt. 4

6. The hazard identification process carried out in accordance with points 3 to 5, should lead to the identification of the level of risk associated with the GMM.

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<sup>14</sup> This would only apply to animals and plants in the environment likely to be exposed.

<sup>15</sup> This would only apply to animals and plants in the environment likely to be exposed.

<sup>16</sup> This would only apply to animals and plants in the environment likely to be exposed.

7. Selection of the containment and other protective measures should then be made on the basis of the level of risk associated with the GMMs together with consideration of:
- (i) the characteristics of the environment likely to be exposed (e.g. whether in the environment likely to be exposed to the GMMs there are known biota which can be adversely affected by the micro-organisms used in the contained use activity);
  - (ii) the characteristics of the activity (e.g. its scale; nature);
  - (iii) any non-standard operations (e.g. the inoculation of animals with GMMs; equipment likely to generate aerosols).

Consideration of items (i) to (iii) for the particular activity may increase, reduce or leave unaltered the level of risk associated with the GMM as identified under point 6.

8. The analysis carried out as described above will finally lead to the assignment of the activity to one of the classes described in Article 4(3).
9. The final classification of the contained use should be confirmed by reviewing the completed assessment referred to in Article 4(2).
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## ANNEX IV

### CONTAINMENT AND OTHER PROTECTIVE MEASURES

#### *General principles*

1. These tables present the normal minimum requirements and measures necessary for each level of containment.

Containment is also achieved through the use of good work practices, training, containment equipment and special installation design. For all activities involving GMMs the principles of good microbiological practice and the following principles of good occupational safety and hygiene, shall apply:

- (i) to keep workplace and environmental exposure to any GMM to the lowest practicable level;
- (ii) to exercise engineering control measures at source and to supplement these with appropriate personal protective clothing and equipment when necessary;
- (iii) to test adequately and maintain control measures and equipment;
- (iv) to test, when necessary, for the presence of viable process organisms outside the primary physical containment;
- (v) to provide appropriate training of personnel;
- (vi) to establish biological safety committees or subcommittees, if required;
- (vii) to formulate and implement local codes of practice for the safety of personnel, as required;
- (viii) where appropriate to display biohazard signs;
- (ix) to provide washing and decontamination facilities for personnel;
- (x) to keep adequate records;
- (xi) to prohibit eating, drinking, smoking, applying cosmetics or the storing of food for human consumption in the work area;
- (xii) to prohibit mouth pipetting;
- (xiii) to provide written standard operating procedures where appropriate to ensure safety;
- (xiv) to have effective disinfectants and specified disinfection procedures available in case of spillage of GMMs;
- (xv) to provide safe storage for contaminated laboratory equipment and materials, when appropriate.

2. The titles of the tables are indicative:

Table I A presents minimum requirements for laboratory activities.

Table I B presents additions to and modifications of Table I A for glasshouse/growth-room activities involving GMMs.

Table I C presents additions to and modifications of Table I A for activities with animals involving GMMs.

Table II presents minimum requirements for activities other than laboratory activities.

In some particular cases, it might be necessary to apply a combination of measures, from Table I A and Table II, of the same level.

In some cases users may, with the agreement of the competent authority, not apply a specification under a particular containment level or combine specifications from two different levels.

In these tables “optional” means that the user may apply these measures on a case-by-case basis, subject to the assessment referred to in Article 4(2).

3. Member States may, in implementing this Annex, incorporate in addition the general principles in points 1 and 2 in the following tables for the sake of clarity of the requirements.

*Table I A*

**Containment and other protective measures for laboratory activities**

Specifications		Containment levels			
		1	2	3	4
1	Laboratory suite: isolation <sup>1</sup>	Not required	Not required	Required	Required
2	Laboratory: sealable for fumigation	Not required	Not required	Required	Required

**Equipment**

3	Surfaces resistant to water, acids, alkalis, solvents, disinfectants, decontamination agents and easy to clean	Required (bench)	Required (bench)	Required (bench, floor)	Required (bench, floor, ceiling, walls)
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4	Entry to lab via airlock <sup>2</sup>	Not required	Not required	Optional	Required
5	Negative pressure relative to the pressure of the immediate environment	Not required	Not required	Required except for <sup>3</sup>	Required
6	Extract and input air from the laboratory should be HEPA-filtered	Not required	Not required	Required (HEPA) <sup>4</sup> — extract air except for <sup>3</sup>	Required (HEPA) <sup>5</sup> — input and extract air
7	Microbiological safety post	Not required	Optional	Required	Required
8	Autoclave	On site	In the building	En suite <sup>6</sup>	In lab = double-ended

#### System of work

9	Restricted access	Not required	Required	Required	Required
10	Biohazard sign on the door	Not required	Required	Required	Required
11	Specific measures to control aerosol dissemination	Not required	Required minimise	Required prevent	Required prevent
13	Shower	Not required	Not required	Optional	Required

↓ Corrigendum, 98/81/EC  
(OJ L 93, 8.4.1999, p. 27)

14	Protective clothing	Suitable protective clothing	Suitable protective clothing	Suitable protective clothing and (optional) footwear	Complete change of clothing and footwear before entry and exit
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↓ 98/81/EC Art. 1 pt. 4

15	Gloves	Not required	Optional	Required	Required
18	Efficient vector control (e.g. for rodents and insects)	Optional	Required	Required	Required

**Waste**

19	Inactivation of GMMs in effluent from hand-washing sinks or drains and showers and similar effluents	Not required	Not required	Optional	Required
20	Inactivation of GMMs in contaminated material and waste	Optional	Required	Required	Required

**Other measures**

21	Laboratory to contain its own equipment	Not required	Not required	Optional	Required
23	An observation window or alternative is to be present so that occupants can be seen	Optional	Optional	Optional	Required

- <sup>1</sup> Isolation = the laboratory is separated from other areas in the same building or is in a separate building.
- <sup>2</sup> Airlock = entry must be through an airlock which is a chamber isolated from the laboratory. The clean side of the airlock must be separated from the restricted side by changing or showering facilities and preferably by interlocking doors.
- <sup>3</sup> Activities where transmission does not occur via airborne route.
- <sup>4</sup> HEPA = High efficiency particulate air.
- <sup>5</sup> Where viruses which are not retained by HEPA filters are used, extra requirements will be necessary for extract air.
- <sup>6</sup> With validated procedures, allowing the safe transfer of material into an autoclave outside the lab, and providing an equivalent level of protection.

Table I B

**Containment and other protective measures for glasshouses and growth-rooms**

The terms “glasshouse” and “growth-room” refer to a structure with walls, a roof and a floor designed and used principally for growing plants in a controlled and protected environment.

↓ 98/81/EC (adapted)

All provisions of Table I A shall apply with the following additions/modifications:

Specifications		Containment levels			
		1	2	3	4
<b>Building</b>					
1	☒ Glasshouse ☒: permanent structure <sup>1</sup>	Not required	Required	Required	Required
<b>Equipment</b>					
3	Entry via a separate room with two interlocking doors	Not required	Optional	Optional	Required
4	Control of contaminated run-off water	Optional	Minimise <sup>2</sup> run-off	Prevent run-off	Prevent run-off
<b>System of work</b>					
6	Measures to control undesired species such as insects, rodents, arthropods	Required	Required	Required	Required

7	Procedures for transfer of living material between the glasshouse/growth-room, protective structure and laboratory shall control dissemination of ☒ GMMs ☒	Minimise dissemination	Minimise dissemination	Prevent dissemination	Prevent dissemination
1	The glasshouse shall consist of a permanent structure with a continuous waterproof covering, located on a site graded to prevent entry of surface-water run-off ☒ , and with ☒ self-closing lockable doors.				
2	Where transmission can occur through the ground.				

*Table I C*

**Containment and other protective measures for activities in animal units**

All provisions of Table I A shall apply with the following additions/modifications:

Specifications		Containment levels			
		1	2	3	4
<b>Facilities</b>					
1	Isolation of animal unit <sup>1</sup>	Optional	Required	Required	Required
2	Animal facilities <sup>2</sup> separated by lockable doors	Optional	Required	Required	Required
3	Animal facilities designed to facilitate decontamination (waterproof and easily washable material (cages, etc.))	Optional	Optional	Required	Required
4	Floor and/or walls easily washable	Optional	Required (floor)	Required (floor and walls)	Required (floor and walls)
5	Animals kept in appropriate containment facilities such as cages, pens or tanks	Optional	Optional	Optional	Optional
6	Filters on isolators or isolated room <sup>3</sup>	Not required	Optional	Required	Required

<sup>1</sup> Animal unit: a building, or separate area within a building containing facilities and other areas such as changing rooms, showers, autoclaves, food storage areas, etc.

<sup>2</sup> Animal facility: a facility normally used to house stock, breeding or experimental animals or one which is used for the performance of minor surgical procedures.

<sup>3</sup> Isolators: transparent boxes where small animals are contained within or outside a cage; for large animals, isolated rooms may be more appropriate.

Table II

**Containment and other protective measures for other activities**

Specifications		Containment levels			
		1	2	3	4
<b>General</b>					
1	Viable micro-organisms should be contained in a system which separates the process from the environment (closed system)	Optional	Required	Required	Required
2	Control of exhaust gases from the closed system	Not required	Required, minimise dissemination	Required, prevent dissemination	Required, prevent dissemination
3	Control of aerosols during sample collection, addition of material to a closed system or transfer of material to another closed system	Optional	Required, minimise dissemination	Required, prevent dissemination	Required, prevent dissemination
4	Inactivation of bulk culture fluids before removal from the closed system	Optional	Required, by validated means	Required, by validated means	Required, by validated means
5	Seals should be designed so as to minimise or prevent release	No sepecific requirement	Minimise dissemination	Prevent dissemination	Prevent dissemination
6	The controlled area should be designed to contain spillage of the entire contents of the closed system	Optional	Optional	Required	Required
7	The controlled area should be sealable to permit fumigation	Not required	Optional	Optional	Required

## Equipment

8	Entry via airlock	Not required	Not required	Optional	Required
9	Surfaces resistant to water, acids, alkalis, solvents, disinfectants, decontamination agents and easy to clean	Required (bench if any)	Required (bench if any)	Required (bench if any, floor)	Required (bench, floor, ceiling, walls)
10	Specific measures to adequately ventilate the controlled area in order to minimise air contamination	Optional	Optional	Optional	Required
11	The controlled area should be maintained at an air pressure negative to the immediate surroundings	Not required	Not required	Optional	Required
12	Extract and input air from the controlled area should be HEPA filtered	Not required	Not required	Required (extract air, optional for input air)	Required (input and extract air)

## System of work

13	Closed systems should be located within a controlled area	Not required	Optional	Required	Required
14	Access should be restricted to nominated personnel only	Not required	Required	Required	Required
15	Biohazard signs should be posted	Not required	Required	Required	Required
17	Personnel should shower before leaving the controlled area	Not required	Not required	Optional	Required
18	Personnel should wear protective clothing	Required (work clothing)	Required (work clothing)	Required	Complete change before exit and entry

**Waste**

22	Inactivation of GMMs in effluent from handwashing sinks and showers or similar effluents	Not required	Not required	Optional	Required
23	Inactivation of GMMs in contaminated material and waste including those in process effluent before final discharge	Optional	Required, by validated means	Required, by validated means	Required, by validated means

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## ANNEX V

↓ 98/81/EC, Art. 1 pt. 4 (adapted)

### ☒ INFORMATION REQUIRED FOR THE NOTIFICATION REFERRED TO IN ARTICLES 6, 8 AND 9 ☒

↓ 98/81/EC Art. 1 pt. 4

#### PART A

Information required for the notification referred to in Article 6:

- name of user(s) including those responsible for supervision and safety,
- information on the training and qualifications of the persons responsible for supervision and safety,
- details of any biological committees or subcommittees,
- address and general description of the premises,
- a description of the nature of the work which will be undertaken,
- the class of the contained uses,
- only for class 1 contained uses, a summary of the assessment referred to in Article 4(2) and information on waste management.

#### PART B

Information required for the notification referred to in Article 8:

- the date of submission of the notification referred to in Article 6,
- the names of the persons responsible for supervision and safety and information on their training and qualification,
- the recipient, donor and/or parental micro-organism(s) used and, where applicable, the host-vector system(s) used,
- the source(s) and the intended function(s) of the genetic material(s) involved in the modification(s),
- the identity and characteristics of the GMM,
- the purpose of the contained use, including the expected results,
- the approximate culture volumes to be used,

- a description of the containment and other protective measures to be applied, including information about waste management, including the wastes to be generated, their treatment, final form and destination,
- a summary of the assessment referred to in Article 4(2),
- the information necessary for the competent authority to evaluate any emergency response plans, if required under Article 13(1).

## PART C

Information required for the notification referred to in Article 9:

- (a)
  - the date of submission of the notification referred to in Article 6,
  - the names of the persons responsible for supervision and safety and information on their training and qualification;
- (b)
  - the recipient or parental micro-organism(s) to be used,
  - the host-vector system(s) to be used (where applicable),
  - the source(s) and intended function(s) of the genetic material(s) involved in the modification(s),
  - the identity and characteristics of the GMM,
  - the culture volumes to be used;
- (c)
  - a description of the containment and other protective measures to be applied, including information about waste management, including the type and form of wastes to be generated, their treatment, final form and destination,
  - the purpose of the contained use, including the expected results,
  - a description of the parts of the installation;
- (d) information about accident prevention and emergency response plans, if any:
  - any specific hazards arising from the location of the installation,
  - the preventive measures applied, such as safety equipment, alarm systems and containment methods,
  - the procedures and plans for verifying the continuing effectiveness of the containment measures,
  - a description of information provided to workers,
  - the information necessary for the competent authority to evaluate any emergency response plans, if required under Article 13(1);

- (e) a copy of the assessment referred to in Article 4(2).

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## ANNEX VI

### **Part A**

#### **Repealed Directive with its successive amendments** (referred to in Article 22)

Council Directive 90/219/EEC  
(OJ L 117, 8.5.1990, p. 1)

Commission Directive 94/51/EC  
(OJ L 297, 18.11.1994, p. 29)

Council Directive 98/81/EC  
(OJ L 330, 5.12.1998, p. 13)

Council Decision 2001/204/EC  
(OJ L 73, 15.3.2001, p. 32)

Regulation (EC) No 1882/2003 of the European  
Parliament and of the Council  
(OJ L 284, 31.10.2003, p. 1)

Annex III, point 19, only

### **Part B**

#### **List of time-limits for transposition into national law** (referred to in Article 22)

Directive	Time-limit for transposition
90/219/EEC	23 October 1991
94/51/EC	30 April 1995
98/81/EC	5 June 2000

## ANNEX VII

### CORRELATION TABLE

Directive 90/219/EEC	This Directive
Article 1	Article 1
Article 2	Article 2
Article 3, introductory phrase	Article 3(1), introductory phrase
Article 3, first indent	Article 3(1)(a)
Article 3, second indent	Article 3(1)(b)
Article 4, first paragraph	Article 3(2)
Article 4, second paragraph	Article 3(3)
Article 5	Article 4
Article 6	Article 5
Article 7	Article 6
Article 8	Article 7
Article 9	Article 8
Article 10	Article 9
Article 11(1), (2) and (3)	Article 10(1), (2) and (3)
Article 11(4), introductory phrase	Article 10(4), introductory phrase
Article 11(4), first indent	Article 10(4)(a)
Article 11(4), second indent	Article 10(4)(b)
Article 12, first paragraph	Article 11(1)
Article 12, second paragraph	Article 11(2)
Article 13	Article 12
Article 14, first paragraph	Article 13(1)
Article 14, second paragraph	Article 13(2)
Article 15(1), introductory phrase	Article 14(1), introductory phrase

Article 15(1), first indent  
Article 15(1), second indent  
Article 15(1), third indent  
Article 15(1), fourth indent  
Article 15(2), introductory phrase  
Article 15(2), first indent  
Article 15(2), second indent  
Article 16  
Article 17  
Article 18  
Article 19(1)  
Article 19(2)  
Article 19(3), introductory phrase  
Article 19(3), first indent  
Article 19(3), second indent  
Article 19(3), third indent  
Article 19(4)  
Article 19(5)  
Article 20  
Article 20a  
Article 21  
Article 22  
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Article 23

Article 14(1)(a)  
Article 14(1)(b)  
Article 14(1)(c)  
Article 14(1)(d)  
Article 14(2), introductory phrase  
Article 14(2)(a)  
Article 14(2)(b)  
Article 15  
Article 16  
Article 17  
Article 18(1), first subparagraph  
Article 18(1), second subparagraph  
Article 18(2), introductory phrase  
Article 18(2)(a)  
Article 18(2)(b)  
Article 18(2)(c)  
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Article 24

Annexes I-V

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Annexes I-V

Annex VI

Annex VII

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