



# **Draft Assessment Report (DAR)**

**- public version -**

**Initial risk assessment provided by the rapporteur Member State  
Germany for the existing active substance**

**CHLORIDAZON**

**of the third stage (part A) of the review programme  
referred to in Article 8(2) of Council Directive 91/414/EEC**

**Volume 3, Annex B, Appendices**

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# **Appendix 1**

## **Chloridazon**

### **Standard Terms and Abbreviations**

WARNING: This document forms part of an EC evaluation data package and should not be read in isolation. Registration must not be granted on the basis of this document.

## B.10 Appendices

### B.10.1 Appendix I: Standard terms and abbreviations

#### Part 1 Technical Terms

|                   |   |
|-------------------|---|
| A                 | ampere  |
| ACH               | acetylcholine   |
| AChE              | acetylcholinesterase  |
| ADI               | acceptable daily intake   |
| ADP               | adenosine diphosphate   |
| AE                | acid equivalent   |
| AFID              | alkali flame-ionisation detector or detection   |
| A/G               | albumin/globulin ratio  |
| ai                | active ingredient   |
| ALD <sub>50</sub> | approximate median lethal dose, 50 %  |
| ALT               | alanine aminotransferase (SGPT)   |
| AMD               | automatic multiple development  |
| ANOVA             | analysis of variance  |
| AOEL              | acceptable operator exposure level  |
| AP                | alkaline phosphatase  |
| approx            | approximate   |
| AR                | applied radioactivity   |
| ARC               | anticipated residue contribution  |
| ARfD              | acute reference dose  |
| as                | active substance  |
| AST               | aspartate aminotransferase (SGOT)   |
| ASV               | air saturation value  |
| ATP               | adenosine triphosphate  |
| BCF               | bioconcentration factor   |
| bfa               | body fluid assay  |
| BOD               | biological oxygen demand  |
| bp                | boiling point   |
| BSAF              | biota-sediment accumulation factor  |
| BSE               | bovine spongiform encephalopathy  |
| BSP               | bromosulphophthalein  |
| Bt                | <i>Bacillus thuringiensis</i>   |
| Bti               | <i>Bacillus thuringiensis israelensis</i>   |
| Btk               | <i>Bacillus thuringiensis kurstaki</i>  |
| Btt               | <i>Bacillus thuringiensis tenebrionis</i>   |
| BUN               | blood urea nitrogen   |
| bw                | body weight   |
| c                 | centi- (x 10 <sup>-2</sup> )  |
| °C                | degree Celsius (centigrade)   |
| CA                | controlled atmosphere   |
| CAD               | computer aided design   |
| CADDY             | computer aided dossier and data supply (an electronic dossier interchange and archiving format) |
| cd                | candela   |

|                                |  |
|--------------------------------|--|
| CDA                            | controlled drop(let) application   |
| cDNA                           | complementary DNA  |
| CEC                            | cation exchange capacity   |
| cf                             | confer, compare to   |
| CFU                            | colony forming units   |
| ChE                            | cholinesterase   |
| CI                             | confidence interval  |
| CL                             | confidence limits  |
| cm                             | centimetre   |
| CNS                            | central nervous system   |
| COD                            | chemical oxygen demand   |
| CPK                            | creatinine phosphatase   |
| cv                             | coefficient of variation   |
| Cv                             | ceiling value  |
| CXL                            | Codex Maximum Residue Limit (Codex MRL)                                  |
| d                              | day  |
| DAT                            | days after treatment   |
| DES                            | diethylstilboestrol  |
| DFR                            | dislodgeable foliar residue  |
| DMSO                           | dimethylsulfoxide  |
| DNA                            | deoxyribonucleic acid  |
| dna                            | designated national authority  |
| DO                             | dissolved oxygen   |
| DOC                            | dissolved organic carbon   |
| dpi                            | days past inoculation  |
| DRES                           | dietary risk evaluation system   |
| DT <sub>50</sub>               | period required for 50 percent dissipation (define method of estimation) |
| DT <sub>90</sub>               | period required for 90 percent dissipation (define method of estimation) |
| dw                             | dry weight   |
| DWQG                           | drinking water quality guidelines  |
| $\epsilon$                     | decadic molar extinction coefficient                                     |
| E <sub>b</sub> C <sub>50</sub> | effective concentration on the biomass                                   |
| EC <sub>50</sub>               | effective concentration  |
| ECD                            | electron capture detector  |
| ECU                            | European currency unit   |
| ED <sub>50</sub>               | median effective dose  |
| EDI                            | estimated daily intake   |
| ELISA                          | enzyme linked immunosorbent assay  |
| e-mail                         | electronic mail  |
| EMDI                           | estimated maximum daily intake   |
| EPMA                           | electron probe micro analysis  |
| ERC                            | environmentally relevant concentration                                   |
| E <sub>r</sub> C <sub>50</sub> | effective concentration on the growth rate                               |
| ERL                            | extraneous residue limit   |
| F                              | field  |
| F <sub>0</sub>                 | parental generation  |
| F <sub>1</sub>                 | filial generation, first   |
| F <sub>2</sub>                 | filial generation, second  |
| FIA                            | fluorescence immuno assay  |

|                |  |
|----------------|--|
| FID            | flame ionisation detector  |
| FOB            | functional observation battery   |
| fp             | freezing point   |
| FPD            | flame photometric detector   |
| FPLC           | fast protein liquid chromatography   |
| g              | gram   |
| G              | glasshouse   |
| GAP            | good agricultural practice   |
| GC             | gas chromatography   |
| GC-EC          | gas chromatography with electron capture detector                                |
| GC-FID         | gas chromatography with flame ionisation detector                                |
| GC-MS          | gas chromatography-mass spectrometry   |
| GC-MSD         | gas chromatography with mass-selective detection                                 |
| GEP            | good experimental practice   |
| GFP            | good field practice  |
| GGT            | gamma glutamyl transferase   |
| GI             | gastro-intestinal  |
| GIT            | gastro-intestinal tract  |
| GL             | guideline level  |
| GLC            | gas liquid chromatography  |
| GLP            | good laboratory practice   |
| GM             | geometric mean   |
| GMO            | genetically modified organism  |
| GMM            | genetically modified micro-organism  |
| GPC            | gel-permeation chromatography  |
| GPPP           | good plant protection practice   |
| GPS            | global positioning system  |
| GSH            | glutathion   |
| GV             | granulose virus  |
| h              | hour(s)  |
| H              | Henry's Law constant (calculated as a unitless value) (see also K)               |
| ha             | hectare  |
| Hb             | haemoglobin  |
| HCG            | human chorionic gonadotropin   |
| Hct            | haematocrit  |
| HDT            | highest dose tested  |
| hL             | hectolitre   |
| HEED           | high energy electron diffraction   |
| HID            | helium ionisation detector   |
| HPAEC          | high performance anion exchange chromatography                                   |
| HPLC           | high pressure liquid chromatography<br>or high performance liquid chromatography |
| HPLC-MS        | high pressure liquid chromatography – mass spectrometry                          |
| HPPLC          | high pressure planar liquid chromatography                                       |
| HPTEC          | high performance thin layer chromatography                                       |
| HFGC           | high resolution gas chromatography   |
| H <sub>s</sub> | Shannon-Weaver index   |
| Ht             | haematocrit  |
| I              | indoor   |

|                  |   |
|------------------|---|
| I <sub>50</sub>  | inhibitory dose, 50 %   |
| IC <sub>50</sub> | median immobilisation concentration   |
| ICM              | integrated crop management  |
| ID               | ionisation detector   |
| IEDI             | international estimated daily intake  |
| IGR              | insect growth regulator   |
| im               | intramuscular   |
| inh              | inhalation  |
| ip               | intraperitoneal   |
| IPM              | integrated pest management  |
| IR               | infrared  |
| ISBN             | international standard book number  |
| ISSN             | international standard serial number  |
| iv               | intravenous   |
| IVF              | in vitro fertilisation  |
| k                | kilo  |
| K                | Kelvin or Henry's Law constant (in atmospheres per cubic meter per mole) (see also H) <sup>13</sup> |
| K <sub>ads</sub> | adsorption constant   |
| K <sub>des</sub> | apparent desorption coefficient   |
| K <sub>oc</sub>  | organic carbon adsorption coefficient   |
| K <sub>om</sub>  | organic matter adsorption coefficient   |
| kg               | kilogram  |
| L                | litre   |
| LAN              | local area network  |
| LASER            | light amplification by stimulated emission  |
| LBC              | loosely bound capacity  |
| LC               | liquid chromatography   |
| LC-MS            | liquid chromatography-mass spectrometry   |
| LC <sub>50</sub> | lethal concentration, median  |
| LCA              | life cycle analysis   |
| LCLo             | lethal concentration low  |
| LC-MS-MS         | liquid chromatography with tandem mass spectrometry   |
| LD <sub>50</sub> | lethal dose, median; dosis letalis media  |
| LDLo             | lethal dose low   |
| LDH              | lactate dehydrogenase   |
| LOAEC            | lowest observable adverse effect concentration  |
| LOAEL            | lowest observable adverse effect level  |
| LOD              | limit of detection  |
| LOEC             | lowest observable effect concentration  |
| LOEL             | lowest observable effect level  |
| LOQ              | limit of quantification (determination)   |
| LPLC             | low pressure liquid chromatography  |
| LSC              | liquid scintillation counting or counter  |
| LSD              | least squared denominator multiple range test   |
| LSS              | liquid scintillation spectrometry   |
| LT               | lethal threshold  |
| m                | metre   |
| M                | molar   |

|       |  |
|-------|--|
| µm    | micrometer (micron)                        |
| MC    | moisture content                           |
| MCH   | mean corpuscular haemoglobin               |
| MCHC  | mean corpuscular haemoglobin concentration |
| MCV   | mean corpuscular volume                    |
| MDL   | method detection limit                     |
| MFO   | mixed function oxidase                     |
| µg    | microgram                                  |
| mg    | milligram                                  |
| MHC   | moisture holding capacity                  |
| min   | minute(s)                                  |
| mL    | millilitre                                 |
| MLT   | median lethal time                         |
| MLD   | minimum lethal dose                        |
| mm    | millimetre                                 |
| mo    | month(s)                                   |
| mol   | Mol  |
| MOS   | margin of safety                           |
| mp    | melting point                              |
| MRE   | maximum residue expected                   |
| MRL   | maximum residue limit or level             |
| mRNA  | messenger ribonucleic acid                 |
| MS    | mass spectrometry                          |
| MSDS  | material safety data sheet                 |
| MTD   | maximum tolerated dose                     |
| n     | normal (defining isomeric configuration)   |
| NAEL  | no adverse effect level                    |
| nd    | not detected                               |
| NEDI  | no effect daily intake (mg/kg body wt/day) |
| NEL   | no effect level                            |
| NERL  | no effect residue level                    |
| ng    | nanogram                                   |
| nm    | nanometer                                  |
| NMR   | nuclear magnetic resonance                 |
| no    | number                                     |
| NOAEC | no observed adverse effect concentration   |
| NOAEL | no observed adverse effect level           |
| NOEC  | no observed effect concentration           |
| NOED  | no observed effect dose                    |
| NOEL  | no observed effect level                   |
| NOIS  | notice of intent to suspend                |
| NPD   | nitrogen-phosphorus detector or detection  |
| NPV   | nuclear polyhedrosis virus                 |
| NR    | not reported                               |
| NTE   | neurotoxic target esterase                 |
| OC    | organic carbon content                     |
| OCR   | optical character recognition              |
| ODP   | ozone-depleting potential                  |
| ODS   | ozone-depleting substances                 |



|                   |  |
|-------------------|--|
| OM                | organic matter content   |
| op                | organophosphorus pesticide                                       |
| Pa                | Pascal   |
| PAD               | pulsed amperometric detection                                    |
| 2-PAM             | 2-pralidoxime  |
| pc                | paper chromatography   |
| PC                | personal computer  |
| PCV               | haematocrit (packed corpuscular volume)                          |
| PEC               | predicted environmental concentration                            |
| PEC <sub>A</sub>  | predicted environmental concentration in air                     |
| PEC <sub>S</sub>  | predicted environmental concentration in soil                    |
| PEC <sub>SW</sub> | predicted environmental concentration in surface water           |
| PEC <sub>GW</sub> | predicted environmental concentration in ground water            |
| PED               | plasma-emissions-detector  |
| pH                | pH-value   |
| PHED              | pesticide handler's exposure data                                |
| PHI               | pre-harvest interval   |
| PIC               | prior informed consent   |
| pic               | phage inhibition capacity  |
| PIXE              | proton induced X-ray emission                                    |
| pK <sub>a</sub>   | negative logarithm (to the base 10) of the dissociation constant |
| PNEC              | predicted no effect concentration                                |
| po                | by mouth (per os)  |
| P <sub>ow</sub>   | partition coefficient between n-octanol and water                |
| POP               | persistent organic pollutants                                    |
| ppb               | parts per billion (10 <sup>-9</sup> )                            |
| PPE               | personal protective equipment                                    |
| ppm               | parts per million (10 <sup>-6</sup> )                            |
| ppp               | plant protection product   |
| ppq               | parts per quadrillion (10 <sup>-24</sup> )                       |
| ppt               | parts per trillion (10 <sup>-12</sup> )                          |
| PSP               | phenolsulfophthalein   |
| PrT               | prothrombin time   |
| PRL               | practical residue limit  |
| PT                | prothrombin time   |
| PTDI              | provisional tolerable daily intake                               |
| PTT               | partial thromboplastin time                                      |
| QSAR              | quantitative structure-activity relationship                     |
| r                 | correlation coefficient  |
| r <sup>2</sup>    | coefficient of determination                                     |
| RBC               | red blood cell   |
| REI               | restricted entry interval  |
| R <sub>f</sub>    | ratio of fronts  |
| RfD               | reference dose   |
| RH                | relative humidity  |
| RL <sub>50</sub>  | residual lifetime  |
| RNA               | ribonucleic acid   |
| RP                | reversed phase   |
| rpm               | reversed phase material  |

|                   |   |
|-------------------|---|
| rRNA              | ribosomal ribonucleic acid                          |
| RRT               | relative retention time                             |
| RSD               | relative standard deviation                         |
| s                 | second  |
| SAC               | strong adsorption capacity                          |
| SAP               | serum alkaline phosphatase                          |
| SAR               | structure/activity relationship                     |
| SBLC              | shallow bed liquid chromatography                   |
| sc                | subcutaneous  |
| sce               | sister chromatid exchange                           |
| SD                | standard deviation                                  |
| SE                | standard error                                      |
| SEM               | standard error of the mean                          |
| SEP               | standard evaluation procedure                       |
| SF                | safety factor                                       |
| SFC               | supercritical fluid chromatography                  |
| SFE               | supercritical fluid extraction                      |
| SIMS              | secondary ion mass spectroscopy                     |
| SOP               | standard operating procedure                        |
| sp                | species (only after a generic name)                 |
| SPE               | solid phase extraction                              |
| SPF               | specific pathogen free                              |
| spp               | subspecies  |
| sq                | square  |
| SSD               | sulphur specific detector                           |
| SSMS              | spark source mass spectrometry                      |
| STEL              | short term exposure limit                           |
| STMR              | supervised trials median residue                    |
| t                 | tonne (metric ton)                                  |
| $t_{1/2}$         | half-life (define method of estimation)             |
| T <sub>3</sub>    | tri-iodothyroxine                                   |
| T <sub>4</sub>    | thyroxine   |
| TADI              | temporary acceptable daily intake                   |
| TAR               | total applied radioactivity                         |
| TBC               | tightly bound capacity                              |
| TCD               | thermal conductivity detector                       |
| TCLo              | toxic concentration low                             |
| TID               | thermionic detector, alkali flame detector          |
| TDL <sub>o</sub>  | toxic dose low                                      |
| TDR               | time domain reflectometry                           |
| TER               | toxicity exposure ratio                             |
| TER <sub>i</sub>  | toxicity exposure ratio for initial exposure        |
| TER <sub>ST</sub> | toxicity exposure ratio following repeated exposure |
| TER <sub>LT</sub> | toxicity exposure ratio following chronic exposure  |
| tert              | tertiary (in a chemical name)                       |
| TEP               | typical end-use product                             |
| TGGE              | temperature gradient gel electrophoresis            |
| TIFF              | tag image file format                               |
| TLC               | thin layer chromatography                           |

|          |   |
|----------|---|
| Tlm      | median tolerance limit                    |
| TLV      | threshold limit value                     |
| TMDI     | theoretical maximum daily intake          |
| TMRC     | theoretical maximum residue contribution  |
| TMRL     | temporary maximum residue limit           |
| TOC      | total organic chlorine                    |
| Tremcard | Transport emergency card                  |
| tRNA     | transfer ribonucleic acid                 |
| TSH      | thyroid stimulating hormone (thyrotropin) |
| TWA      | time weighted average                     |
| UDS      | unscheduled DNA synthesis                 |
| UF       | uncertainty factor (safety factor)        |
| ULV      | ultra low volume                          |
| UV       | ultraviolet                               |
| v/v      | volume ratio (volume per volume)          |
| WBC      | white blood cell                          |
| wk       | week                                      |
| wt       | weight                                    |
| w/v      | weight per volume                         |
| w/w      | weight per weight                         |
| XRFA     | X-ray fluorescence analysis               |
| yr       | year                                      |
| <        | less than                                 |
| ≤        | less than or equal to                     |
| >        | greater than                              |
| ≥        | greater than or equal to                  |

## Part 2 Organisations and Publications

|         |   |
|---------|---|
| ACPA    | American Crop Protection Association                          |
| ASTM    | American Society for Testing and Materials                    |
| BA      | Biological Abstracts (Philadelphia)                           |
| BART    | Beneficial Arthropod Registration Testing Group               |
| CA      | Chemical Abstracts  |
| CAB     | Centre for Agriculture and Biosciences International          |
| CAC     | Codex Alimentarius Commission                                 |
| CAS     | Chemical Abstracts Service                                    |
| CCFAC   | Codex Committee on Food Additives and Contaminants            |
| CCGP    | Codex Committee on General Principles                         |
| CCPR    | Codex Committee on Pesticide Residues                         |
| CCRVD   | Codex Committee on Residues of Veterinary Drugs in Food       |
| CE      | Council of Europe   |
| CIPAC   | Collaborative International Pesticides Analytical Council Ltd |
| COREPER | Comité des Représentants Permanents                           |
| EC      | European Commission   |
| ECB     | European Chemical Bureau                                      |

|              |  |
|--------------|--|
| ECCA         | European Crop Care Association   |
| ECDIN        | Environmental Chemicals Data and Information of the European Communities   |
| ECDIS        | European Environmental Chemicals Data and Information System   |
| ECE          | Economic Commission for Europe   |
| ECETOC       | European Chemical Industry Ecology and Toxicology Centre   |
| ECLO         | Emergency Centre for Locust Operations   |
| ECMWF        | European Centre for Medium Range Weather Forecasting   |
| ECPA         | European Crop Protection Association   |
| EDEXIM       | European Database on Export and Import of Dangerous Chemicals  |
| EHC (number) | Environment Health Criteria (number)   |
| EHCD         | Environmental Health Criteria Document   |
| EINECS       | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS       | European List of New Chemical Substances   |
| EMIC         | Environmental Mutagens Information Centre  |
| EPA          | Environmental Protection Agency  |
| EPO          | European Patent Office   |
| EPPO         | European and Mediterranean Plant Protection Organisation   |
| ESCORT       | European Standard Characteristics of Beneficials Regulatory Testing  |
| EU           | European Union   |
| EUPHIDS      | European Pesticide Hazard Information and Decision Support System  |
| EUROPOEM     | European Predictive Operator Exposure Model  |
| FAO          | Food and Agriculture Organisation of the UN  |
| FOCUS        | Forum for the Co-ordination of Pesticide Fate Models and their Use   |
| FRAC         | Fungicide Resistance Action Committee  |
| GATT         | General Agreement on Tariffs and Trade   |
| GAW          | Global Atmosphere Watch  |
| GCOS         | Global Climate Observing System  |
| GCPF         | Global Crop Protection Federation (formerly known as GIFAP)  |
| GEDD         | Global Environmental Data Directory  |
| GEMS         | Global Environmental Monitoring System   |
| GIEWS        | Global Information and Early Warning System for Food and Agriculture   |
| GIFAP        | Groupeement International des Association Nationales de Fabricants de Produits Agrochimiques (now known as GCPF) |
| GRIN         | Germplasm Resources Information Network  |
| HRAC         | Herbicide Resistance Action Committee  |
| IARC         | International Agency for Research on Cancer  |
| IATS         | International Academy of Toxicological Science   |
| IBT          | Industrial Bio-Test Laboratories   |
| ICBB         | International Commission of Bee Botany   |
| ICBP         | International Council for Bird Preservation  |
| ICES         | International Council for the Exploration of the Seas  |
| ICPBR        | International Commission for Plant-Bee Relationships   |
| ILO          | International Labour Organisation  |
| IMO          | International Maritime Organisation  |
| IOBC         | International Organisation for Biological Control of noxious Animals and Plants                                  |
| IPCS         | International Programme on Chemical Safety   |

|         |  |
|---------|--|
| IRAC    | Insecticide Resistance Action Committee  |
| IRC     | International Rice Commission  |
| ISCO    | International Soil Conservation Organisation   |
| ISO     | International Organisation for Standardisation   |
| IUPAC   | International Union of Pure and Applied Chemistry  |
| JECFA   | FAO/WHO Joint Expert Committee on Food Additives   |
| JFCMP   | Joint FAO/WHO Food and Animal Feed Contamination Monitoring Programme  |
| JMP     | Joint Meeting on Pesticides (WHO/FAO)  |
| JMPR    | Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Expert Group on Pesticide Residues (Joint Meeting on Pesticide Residues) |
| NATO    | North Atlantic Treaty Organisation   |
| NAFTA   | North American Free Trade Agreement  |
| NCI     | National Cancer Institute (USA)  |
| NCTR    | National Centre for Toxicological Research (USA)   |
| NGO     | non-governmental organisation  |
| NTP     | National Toxicology Programme (USA)  |
| OECD    | Organisation for Economic Co-operation and Development   |
| OLIS    | On-line Information Service of OECD  |
| PAN     | Pesticides Action Network  |
| RNN     | Re-registration Notification Network   |
| RTECS   | Registry of Toxic Effects of Chemical Substances (USA)   |
| SCPH    | Standing Committee on Plant Health   |
| SETAC   | Society of Environmental Toxicology and Chemistry  |
| SI      | Système International d'Unités   |
| SITC    | Standard International Trade Classification  |
| TOXLINE | Toxicology Information On-line   |
| UN      | United Nations   |
| UNEP    | United Nations Environment Programme   |
| WCDP    | World Climate Data Programme   |
| WCP     | World Climate Programme  |
| WCRP    | World Climate Research Programme   |
| WFP     | World Food Programme   |
| WHO     | World Health Organisation  |
| WTO     | World Trade Organisation   |
| WWF     | World Wide Fund for Nature   |

## **Appendix 2**

### **Chloridazon**

#### **Specific Terms and Abbreviations**

WARNING: This document forms part of an EC evaluation data package and should not be read in isolation. Registration must not be granted on the basis of this document.

## **B.10.2 Appendix II: Specific terms and abbreviations**

|     |                            |
|-----|----------------------------|
| PAS | pure active substance      |
| TAS | technical active substance |

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