```
#\#CIF_2.0
##############################################################################
#                                                                            #
#                    CIF Twinning Dictionary                                 #
#                                                                            #
# This dictionary contains names and definitions of twinning data items      #
# recognized by the International Union of Crystallography for the exchange  #
# of data between laboratories and submissions to journals and databases.    #
#                                                                            #
##############################################################################


data_CIF_TWIN

    _dictionary.title            CIF_TWIN
    _dictionary.class            Instance
    _dictionary.version          3.1
    _dictionary.date             2016-11-15
    _dictionary.uri              https://www.iucr.org/cif/dic/cif_twin.dic
    _dictionary.ddl_conformance  3.11.09
    _dictionary.namespace        TwinCrys
    _description.text
;
    The DICTIONARY group defines the data items used to specify the
    the twinning aspects of crystals in a crystallographic study.

;

save_TWIN_GROUP

    _definition.id               TWIN_GROUP
    _definition.scope            Category
    _definition.class            Head
    _definition.update           2014-06-20
    _description.text
;

     The TWIN_GROUP data items describe atomic information
     used in crystallographic structure studies.
;
    _name.category_id            CIF_TWIN
    _name.object_id              TWIN_GROUP
    _import.get                  [{"file":"cif_core.dic" "save":"CIF_CORE" "mode":"Full"}]
save_


save_TWIN

    _definition.id               TWIN
    _definition.scope            Category
    _definition.class            Set
    _definition.update           2014-06-20
    _description.text
;

     Data items in the TWIN category record general details about
     the nature of the twinning in the sample.
     Terminology for twin dataname definitions was taken directly from:
     "International Union of Crystallography Commission on Mathematical
     and Theoretical Crystallography Research themes: Crystal twinning"
     by Massimo Nespolo, February 3, 2009.
     http://www.crystallography.fr/mathcryst/twins.htm .
;
    _name.category_id            TWIN_GROUP
    _name.object_id              TWIN

save_


save_twin.dimensionality

    _definition.id               '_twin.dimensionality'
    _definition.update           2014-06-20
    loop_
      _alias.definition_id
          '_twin_dimensionality'
    _description.text
;

     The degree of overlap between the twin lattices.
     Most twin lattice symmetry (TLS) and twin lattice quasi-symmetry (TLQS)
     twins as defined by Donnay and Donnay will be triperiodic.

     Reference: Donnay, G. & Donnay, J. D. H. (1974). Can. Mineral. 12, 422-425.
;
    _name.category_id            twin
    _name.object_id              dimensionality
    _type.purpose                State
    _type.source                 Assigned
    _type.container              Single
    _type.contents               Code
    loop_
    _enumeration_set.state
    _enumeration_set.detail
              triperiodic   'common lattice in three dimensions'
              diperiodic    'common lattice in two dimensions'
              monoperiodic  'common lattice in one dimension'

save_

# Dictionary continues below with a sequence of save frame definitions.
```

Syntax header flag

Header comment, ignored by software

Overall dictionary information at the beginning of a data block.

Definition of the Head category for the dictionary ("TWIN_GROUP")

Definition of an ordinary category ("TWIN")

Definition of a data name ("_twin.dimensionality")

More data name and category definitions follow.