PROJECT N. 037033

EXIOPOL

A NEW ENVIRONMENTAL ACCOUNTING FRAMEWORK USING EXTERNALITY DATA AND INPUT-OUTPUT TOOLS FOR POLICY ANALYSIS

THE EXIOPOL DATABASE MANAGEMENT SYSTEM

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NOMENCLATURE AND TRANSFORMATIONS

Report of the EXIOPOL project

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Executive Summary

This report specifies the nomenclature and transformations of the EXIOPOL database management system.

It consists of the detailed lists with the harmonized classification systems and the set-up of the transformations involved.

The transformation tables for this part of the database management system are part of Workpackage WS III.2 and III.3. They cover the partly hand made steps from the country level SUT data in many conflicting formats in different sources, to the harmonised classifications used in EXIOPOL. These tables have been produced partly only. These import data transformation tables at SUT level will become available when the data transformations have been made.

The thirteen entities as developed in this report constitute the core structure of the data model for EXIOPOL.

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1 Introduction

1.1 Overview of WS III.4

This report is one of a series of reports that describe the EXIOPOL database management system that is developed in Workstream III.4 of the EXIOPOL project. The full series consists of the following reports and other deliverables:

Number	Title or description
DIII.4.a-2	**Trade Linking Method**
	Method for trade linking described
DIII.4.a-3	**Four Country Test**
	Algorithm available and applied on a test of 4 countries
DIII.4.b-1a	**Data Input Protocol**
	The protocols for data input are described after development in discussion with the leaders of WP.III.2.a/b and WP.III.3.a/b. The data input protocol shall link easily with the form in which data are made available after the transformations in Block 1 (i.e usually matrices in Excel, or Access)
DIII.4.b-1b	**EXIOBASE Main Design**
	Provision of a report that provides an extensive list of design criteria of the database, 4-5 strategic design options, and proposes a design option. This report shall reflect the holistic perspective on the database development work as discussed under 'Objectives'
DIII.4.b-1	**Nomenclature and Transformations**
	Description of the basic nomenclature used for all output data, with transformation tables to classifications as used in all data sources
DIII.4.b-2	**Computational Structure**
	Description of all steps and intermediate results
DIII.4.b-3	**EXIOBASE Software**
	Full Database Manager
DIII.4.b-4	**EXIOBASE Data**
	Database filled with all data
PDIII.4.c-1	**Set-Up of World Trade Model Interface**
	Preliminary report on interface to World Trade Model and its extensions
PDIII.4.c-2	Outline on interface to economy-wide and bottom-up sectoral models
DIII.4.c-1	**World Trade Model Interface**
	Interface and report on World Trade Model and its extensions
DIII.4.c-2	Interface and report on economy-wide and bottom-up sectoral models

The present report is DIII.4.b-1. It is devoted to the topics of nomenclature and transformation. It mainly consists of the detailed lists with the harmonized classification systems.

1.2 Nomenclature and transformations: the issue

This workpackage of the EXIOPOL project deals with nomenclature and transformations. Every discourse, whether scientific or not, needs a nomenclature. For a database with multi-region supply-use tables, this is a more important matter than for most other types of inquiry. The reason for this is that the different countries for which data are collected and combined in the EXIOPOL database have different classification systems for industries and products. Thus, at the outset EXIOPOL partners have put effort in finding a best achievable compromise between the various national practices, the foreseen developments in harmonization within the EU and the UN, the present availability of data, the particular user requirements of an environmentally extended IOT, and so on. This has yielded a list of 131 industrial sectors and 131 products, basically using the NACE sector classification and adding a number of differentiations, especially in the environmentally relevant sectors related to agriculture, energy and mining.

All domestic tables will be transformed into tables with these classifications. Thus, transformation tables have been developed to squeeze the country data tables with non-conforming classifications, differing between countries into the harmonized structure. These tables have been developed in WPs III.2 and III.3, and they will be reported in the various deliverables of those WPs.

1.3 Structure of the report

For this report, Chapter 2 is the core. It contains the lists that have been agreed at present (Month 18 of the project) of classifications for industries, products, emissions, etc.

2 Nomenclature for the data tables

2.1 General discussion

This chapter contains lists of all entities in the database management system for which fixed categorical values have been defined by the EXIOPOL project team. Each section below is devoted to one of the 13 lists. The nomenclature classifications are summarized in Table 2.1.

Table 2.1: The categorical entities for which fixed nomenclatures are available in this report.

Entity	Section
years	2.2
countries	2.3
units	2.4
distributions	2.5
final use types	2.6
factor input types	2.7
environmental systems	2.8
emission types	2.9
extraction types	2.10
industry classification types	2.11
product classification types	2.12
use types	2.13
supply types	2.14

Besides the nomenclatures, some of the tables contain additional information. For instance, the countries list (Table 2.3) contains the full name (such as Austria) as well as an abbreviation (such as AT). Likewise, the product and industry lists contain codes (such as i13.20.13) and suggested symbols (such as A_ALUO) for use in computer programs, as link to existing models.

2.2 The entity years

Table 2.2: Possible values for the entity years.

year name
2000

2.3 The entity countries

Table 2.3: Possible values for the entity countries.

country code	country name
AT	Austria
BE	Belgium
BG	Bulgaria
CY	Cyprus
CZ	Czech Republic
DE	Germany
DK	Denmark
EE	Estonia
ES	Spain
FI	Finland
FR	France
GR	Greece
HU	Hungary
IE	Ireland
IT	Italy
LT	Lithuania
LU	Luxembourg
LV	Latvia
MT	Malta
NL	Netherlands
PL	Poland
PT	Portugal
RO	Romania
SE	Sweden
SI	Slovenia
SK	Slovak Republic
GB	United Kingdom
US	United States
JP	Japan
CN	China
CA	Canada
KR	South Korea
BR	Brazil

country code	country name
IN	India
MX	Mexico
RU	Russian Federation
AU	Australia
CH	Switzerland
TR	Turkey
TW	Taiwan
NO	Norway
ID	Indonesia
ZA	South Africa
RoW	Rest of the world

2.4 The entity units

Table 2.4: Possible values for the entity units.

unit name
euro (basic price)
kg
m2.yr

2.5 The entity uncertainty distributions

Table 2.5: Possible values for the entity uncertainty distributions.

distribution name
N/A
normal
uniform
triangular
log normal

2.6 The entity final use types

Table 2.6: Possible values for the entity final use types.

final use type code	final use type synonym	final use type name
y01	F_HOUS	Final consumption expenditure by households

final use type code	final use type synonym	final use type name
y02.a	F_NPSH	Final consumption expenditure by non-profit organisations serving households (NPISH)
y02.b	F_GOVE	Final consumption expenditure by government
y04	I_GFCF	Gross fixed capital formation
y05	I_CHIV	Changes in inventories and valuables

2.7 The entity factor input types

Table 2.7: Possible values for the entity factor input types.

factor input type code	factor input type synonym	factor input type name
w02	V_ONTP	Other net taxes on production
w03.a	V_WALS	Compensation of employees; wages, salaries, & employers' social contributions: Low-skilled
w03.b	V_WAMS	Compensation of employees; wages, salaries, & employers' social contributions: Medium-skilled
w03.c	V_WAHS	Compensation of employees; wages, salaries, & employers' social contributions: High-skilled
w04.a	V_COFC	Operating surplus: Consumption of fixed capital
w04.b	V_RENL	Operating surplus: Rents on land
w04.c	V_ROYR	Operating surplus: Royalties on resources
w04.d	V_NOPS	Operating surplus: Remaining net operating surplus
z01	V_WASA	Compensation of Employees; wages & salaries
z02	V_WASC	Compensation of Employees; employers' social contributions
z03.a	E_NRLS	Employed persons: Low-skilled
z03.b	E_NRMS	Employed persons: Medium-skilled
z03.c	E_NRHS	Employed persons: High-skilled
z04.a	E_HRLS	Employment hours: Low-skilled
z04.b	E_HRMS	Employment hours: Medium-skilled
z04.c	E_HRHS	Employment hours: High-skilled
z05	I_FXCF	Fixed capital formation
z06	I_FXCS	Fixed capital stock

2.8 The entity environment systems

Table 2.8: Possible values for the entity environment systems.

environmental systems
air
water
soil
nature

2.9 The entity emission types

The emission types distinguished cover a broad range so at to create clarity on the meaning of often not well described emissions in emission surveys. Only a limited number of these are actually used in EXIOPOL.

Table 2.9: Possible values for the entity emission types.

emission type name	emission type code	emission type synonym	emission type description	environment system
As	17428-41-0	E_As	Arsenic and arsenic compounds expressed in amount As	air
Cd	22537-48-0	E_Cd	Cadmium and cadmium compounds expressed in amount Cd	air
CH4	74-82-8	E_CH4		air
CO	630-08-0	E_CO		air
CO2	124-38-9	E_CO2		air
Cu	15158-11-9	E_Cu	Copper and copper compounds expressed in amount Cu	air
Hg	14302-87-5	E_Hg	Mercury and mercury compounds expressed in amount Hg	air
N2O	10102-44-0	E_N2O		air
NH3	7664-41-7	E_NH3		air
Ni	14701-22-5	E_Ni	Nickel and nickel compounds expressed in amount Ni	air
NOx	11104-93-1	E_NOx		air
Pb	14280-50-3	E_Pb	Lead and lead compounds expressed in amount Pb	air
PFC	PFC	E_PFC		air

emission type name	emission type code	emission type synonym	emission type description	environment system
PM10	PM10	E_PM10		air
Se	7782-49-2	E_Se	Selenium and selenium compounds expressed in amount Se	air
SF6	2551-62-4	E_SF6		air
SOx	7446-09-5	E_SOx		air
Zn	23713-49-7	E_Zn	Zinc and zinc compounds expressed in amount Zn	air
2,4,5-T	93-76-5	E_2_4_5_T		soil
2,4-D	94-75-7	E_2_4_D		soil
2,4-D 2-ethylhexyl ester	1928-43-4	E_2_4_D_2_ethylhexyl		soil
2,4-D butyl ester	94-80-4	E_2_4_BDE		soil
2,4-DB	94-82-6	E_butoxone		soil
acifluorfen	50594-66-6	E_acifluorfen		soil
aclonifen	74070-46-5	E_aclonifen		soil
acrolein	107-02-8	E_acrolein		soil
ametryn	834-12-8	E_ametryn		soil
asulam	3337-71-1	E_asulam		soil
atrazine	1912-24-9	E_atrazine		soil
benefin	1861-40-1	E_benefin		soil
bensulide	741-58-2	E_bensulide		soil
bentazone	25057-89-0	E_bentazone		soil
bifenox	42576-02-3	E_bifenox		soil
bromacil	314-40-9	E_bromacil		soil
bromoxynil	1689-84-5	E_bromoxynil		soil
butamifos	36335-67-8	E_butamifos		soil
butylate	2008-41-5	E_butylate		soil
carbetamide	16118-49-3	E_carbetamide		soil
chlorbromuron	13360-45-7	E_chlorbromuron		soil
chlorbufam	1967-16-4	E_chlorbufam		soil
chloridazon	1698-60-8	E_chloridazon		soil
chlorimuron-	90982-32-4	E_chlorimuron_		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
ethyl chlorotoluron	15545-48-9	ethyl E_chlorotoluron		soil
chloroxuron	1982-47-4	E_chloroxuron		soil
chlorpropham	101-21-3	E_chlorpropham		soil
chlorsulfuron	64902-72-3	E_chlorsulfuron		soil
clopyralid	1702-17-6	E_clopyralid		soil
cyanazine	21725-46-2	E_cyanazine		soil
cycloate	1134-23-2	E_cycloate		soil
cycloxydim	101205-02-1	E_cycloxydim		soil
desmedipham	13684-56-5	E_desmedipham		soil
desmetryn	1014-69-3	E_desmetryn		soil
di-allate	2303-16-4	E_di_allate		soil
dicamba	1918-00-9	E_dicamba		soil
dichlobenil	1194-65-6	E_dichlobenil		soil
dichlorprop	7547-66-2	E_dichlorprop		soil
difenzoquat	43222-48-6	E_difenzoquat		soil
diflufenican	83164-33-4	E_diflufenican		soil
dinoterb	1420-07-1	E_dinoterb		soil
diphenamid	957-51-7	E_diphenamid		soil
diquat	2764-72-9	E_diquat		soil
diquat dibromide	85-00-7	E_diquat_dibromide		soil
diuron	330-54-1	E_diuron		soil
DSMA	144-21-8	E_DSMA	DSMA shorthand for disodium methanearsonate	soil
endothal	145-73-3	E_endothal		soil
EPTC	759-94-4	E_EPTC	EPTC shorthand for ethyl dipropylthiocarbamate	soil
fenchlorazole-ethyl	103112-35-2	E_fenchlorazole_ethyl		soil
fenuron	101-42-8	E_fenuron		soil
fluazifop-p-butyl	79241-46-6	E_fluazifop_p_butyl		soil
fluometuron	2164-17-2	E_fluometuron		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
fluroxypyr meptyl	81406-37-3	E_fluroxypyr_ meptyl		soil
fomesafen	72178-02-0	E_fomesafen		soil
glufosinate-ammonium	77182-82-2	E_glufosinate_a mmonium		soil
glyphosate	1071-83-6	E_glyphosate		soil
haloxyfop-methyl	69806-40-2	E_haloxyfop_m ethyl		soil
hexazinone	51235-04-2	E_hexazinone		soil
imazamethabe nz-methyl	81405-85-8	E_imazamethab enz_methyl		soil
imazaquin	81335-37-7	E_imazaquin		soil
ioxynil	1689-83-4	E_ioxynil		soil
isoproturon	34123-59-6	E_isoproturon		soil
isoxaben	82558-50-7	E_isoxaben		soil
lactofen	77501-63-4	E_lactofen		soil
lenacil	2164-08-1	E_lenacil		soil
linuron	330-55-2	E_linuron		soil
MCPA	94-74-6	E_MCPA	MCPA shorthand for 2-methyl-4-chlorophenoxyacetic acid	soil
MCPB	94-81-5	E_MCPB	MCPB shorthand for 2-methyl-4-chlorophenoxy gamma-butyric acid	soil
mecoprop	93-65-2	E_mecoprop		soil
mecoprop-p	16484-77-8	E_mecoprop_p		soil
mefenacet	73250-68-7	E_mefenacet		soil
metamitron	41394-05-2	E_metamitron		soil
metazachlor	67129-08-2	E_metazachlor		soil
methabenzthia zuron	18691-97-9	E_methabenzthi azuron		soil
metobromuron	3060-89-7	E_metobromuro n		soil
metolachlor	51218-45-2	E_metolachlor		soil
metoxuron	19937-59-8	E_metoxuron		soil
metribuzin	21087-64-9	E_metribuzin		soil
metsulfuron-	74223-64-6	E_metsulfuron_		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
methyl		methyl		
molinate	2212-67-1	E_molinate		soil
monolinuron	1746-81-2	E_monolinuron		soil
MSMA	2163-80-6	E_MSMA	MSMA shorthand for monosodium methanearsonate	soil
napropamide	15299-99-7	E_napropamide		soil
nicosulfuron	111991-09-4	E_nicosulfuron		soil
nitrofen	1836-75-5	E_nitrofen		soil
norflurazon	27314-13-2	E_norflurazon		soil
oryzalin	19044-88-3	E_oryzalin		soil
oxadiazon	19666-30-9	E_oxadiazon		soil
oxyfluorfen	42874-03-3	E_oxyfluorfen		soil
paraquat dichloride	1910-42-5	E_paraquat_dichloride		soil
pendimethalin	40487-42-1	E_pendimethalin		soil
pentanochlor	2307-68-8	E_pentanochlor		soil
phenmedipham	13684-63-4	E_phenmedipham		soil
picloram	1918-02-1	E_picloram		soil
pretilachlor	51218-49-6	E_pretilachlor		soil
prometryn	7287-19-6	E_prometryn		soil
propachlor	1918-16-7	E_propachlor		soil
propanil	709-98-8	E_propanil		soil
propaquizafop	111479-05-1	E_propaquizafop		soil
propham	122-42-9	E_propham		soil
propyzamide	23950-58-5	E_propyzamide		soil
prosulfocarb	52888-80-9	E_prosulfocarb		soil
pyridate	55512-33-9	E_pyridate		soil
quinmerac	90717-03-6	E_quinmerac		soil
quizalofop-ethyl	76578-14-8	E_quizalofop_ethyl		soil
rimsulfuron	122931-48-0	E_rimsulfuron		soil
sethoxydim	74051-80-2	E_sethoxydim		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
simazine	122-34-9	E_simazine		soil
simetryn	1014-70-6	E_simetryn		soil
tebuthiuron	34014-18-1	E_tebuthiuron		soil
terbacil	5902-51-2	E_terbacil		soil
terbutryn	886-50-0	E_terbutryn		soil
thiobencarb	28249-77-6	E_thiobencarb		soil
tri-allate	2303-17-5	E_tri_allate		soil
triasulfuron	82097-50-5	E_triasulfuron		soil
triclopyr	55335-06-3	E_triclopyr		soil
trietazine	1912-26-1	E_trietazine		soil
trifluralin	1582-09-8	E_trifluralin		soil
urea	57-13-6	E_urea		soil
abamectin	71751-41-2	E_abamectin		soil
acephate	30560-19-1	E_acephate		soil
aldicarb	116-06-3	E_aldicarb		soil
aldoxycarb	1646-88-4	E_aldoxycarb		soil
aldrin	309-00-2	E_aldrin		soil
alpha-cypermethrin	67375-30-8	E_alpha_cyper methrin		soil
hexachlorocyclohexane(HCH)	608-73-1	E_hexachlorocyclohexane	This group includes alpha-HCH which is used as pesticide	soil
amitraz	33089-61-1	E_amitraz		soil
anthracene	120-12-7	E_anthracene		soil
azadirachtin	11141-17-6	E_azadirachtin		soil
azinphos-methyl	86-50-0	E_azinphos_me thyl		soil
bendiocarb	22781-23-3	E_bendiocarb		soil
benfuracarb	82560-54-1	E_benfuracarb		soil
bifenthrin	82657-04-3	E_bifenthrin		soil
buprofezin	69327-76-0	E_buprofezin		soil
carbofuran	1563-66-2	E_carbofuran		soil
carbosulfan	55285-14-8	E_carbosulfan		soil
chlordane	57-74-9	E_chlordane		soil
chlorfenvinph	470-90-6	E_chlorfenvinp		soil

emission type names	emission type code	emission type synonymhos	emission type description	environment system
chloropicrin	76-06-2	E_chloropicrin		soil
chlorpyrifos	2921-88-2	E_chlorpyrifos		soil
cyanophos	2636-26-2	E_cyanophos		soil
cyfluthrin	68359-37-5	E_cyfluthrin		soil
cyhalothrin	68085-85-8	E_cyhalothrin		soil
cypermethrin	52315-07-8	E_cypermethrin		soil
cyromazine	66215-27-8	E_cyromazine		soil
DDT	50-29-3	E_DDT		soil
deltamethrin	52918-63-5	E_deltamethrin		soil
demeton-S-methyl	919-86-8	E_demeton_S_methyl		soil
diazinon	333-41-5	E_diazinon		soil
dichlofenthion	97-17-6	E_dichlofenthion		soil
dichlorvos	62-73-7	E_dichlorvos		soil
dieldrin	60-57-1	E_dieldrin		soil
diflubenzuron	35367-38-5	E_diflubenzuron		soil
dimethoate	60-51-5	E_dimethoate		soil
dimethylvinphos	2274-67-1	E_dimethylvinphos		soil
disulfoton	298-04-4	E_disulfoton		soil
endosulfan	115-29-7	E_endosulfan		soil
esfenvalerate	66230-04-4	E_esfenvalerate		soil
ethion	563-12-2	E_ethion		soil
ethoprophos	13194-48-4	E_ethoprophos		soil
ethylene oxide	75-21-8	E_ethylene_oxide		soil
fenitrothion	122-14-5	E_fenitrothion		soil
fenoxycarb	72490-01-8	E_fenoxycarb		soil
fenpropathrin	39515-41-8	E_fenpropathrin		soil
fenthion	55-38-9	E_fenthion		soil
fenvalerate	51630-58-1	E_fenvalerate		soil
fipronil	120068-37-3	E_fipronil		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
flucycloxuron	94050-52-9	E_flucycloxuron		soil
fluvalinate	69409-94-5	E_fluvalinate		soil
fonofos	944-22-9	E_fonofos		soil
heptachlor	76-44-8	E_heptachlor		soil
heptenophos	23560-59-0	E_heptenophos		soil
hydramethylnon	67485-29-4	E_hydramethylnon		soil
isodrin	465-73-6	E_isodrin		soil
isofenphos	25311-71-1	E_isofenphos		soil
isoprocarb	2631-40-5	E_isoprocarb		soil
isoxathion	18854-01-8	E_isoxathion		soil
lambda-cyhalothrin	91465-08-6	E_lambda_cyhalothrin		soil
lindane	58-89-9	E_lindane		soil
malathion	121-75-5	E_malathion		soil
methamidophos	10265-92-6	E_methamidophos		soil
methidathion	950-37-8	E_methidathion		soil
methiocarb	2032-65-7	E_methiocarb		soil
methomyl	16752-77-5	E_methomyl		soil
methoprene	40596-69-8	E_methoprene		soil
methoxychlor	72-43-5	E_methoxychlor		soil
mevinphos	7786-34-7	E_mevinphos		soil
monocrotophos	6923-22-4	E_monocrotophos		soil
naled	300-76-5	E_naled		soil
nicotine	54-11-5	E_nicotine		soil
omethoate	1113-02-6	E_omethoate		soil
oxamyl	23135-22-0	E_oxamyl		soil
oxydemethon-methyl	301-12-2	E_oxydemethon_methyl		soil
parathion-ethyl	56-38-2	E_parathion_ethyl		soil
parathion-	298-00-0	E_parathion_m		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
methyl		ethyl		
permethrin, cis-	61949-76-6	E_permethrin_cis		soil
permethrin, trans-	61949-77-7	E_permethrin_trans		soil
phenothrin	26002-80-2	E_phenothrin		soil
phenthoate	2597-03-7	E_phenthoate		soil
phorate	298-02-2	E_phorate		soil
phosalone	2310-17-0	E_phosalone		soil
phosmet	732-11-6	E_phosmet		soil
phosphine	7803-51-2	E_phosphine		soil
piperonyl butoxide	51-03-6	E_piperonyl_butoxide		soil
pirimicarb	23103-98-2	E_pirimicarb		soil
pirimiphos-methyl	29232-93-7	E_pirimiphos_methyl		soil
profenofos	41198-08-7	E_profenofos		soil
propetamphos	31218-83-4	E_propetamphos		soil
propoxur	114-26-1	E_propoxur		soil
prothiofos	34643-46-4	E_prothiofos		soil
pyraclofos	77458-01-6	E_pyraclofos		soil
pyrethrins	8003-34-7	E_pyrethrins		soil
pyridaben	96489-71-3	E_pyridaben		soil
pyridaphenthion	119-12-0	E_pyridaphenthion		soil
pyriproxyfen	95737-68-1	E_pyriproxyfen		soil
quinalphos	13593-03-8	E_quinalphos		soil
resmethrin	10453-86-8	E_resmethrin		soil
rotenone	83-79-4	E_rotenone		soil
sulprofos	35400-43-2	E_sulprofos		soil
tebufenozide	112410-23-8	E_tebufenozide		soil
teflubenzuron	83121-18-0	E_teflubenzuron		soil
terbufos	13071-79-9	E_terbufos		soil
tetrachlorvinp	961-11-5	E_tetrachlorvin		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
hos		phos		
tetramethrin	7696-12-0	E_tetramethrin		soil
thiodicarb	59669-26-0	E_thiodicarb		soil
thiometon	640-15-3	E_thiometon		soil
tralomethrin	66841-25-6	E_tralomethrin		soil
triazophos	24017-47-8	E_triazophos		soil
trichlorfon	52-68-6	E_trichlorfon		soil
vamidothion	2275-23-2	E_vamidothion		soil
2-phenylphenol	90-43-7	E_2_phenylphenol		soil
benalaxyl	71626-11-4	E_benalaxyl		soil
benodanil	15310-01-7	E_benodanil		soil
benomyl	17804-35-2	E_benomyl		soil
biphenyl	92-52-4	E_biphenyl		soil
bitertanol	55179-31-2	E_bitertanol		soil
bromuconazole	116255-48-2	E_bromuconazole		soil
bupirimate	41483-43-6	E_bupirimate		soil
captan	133-06-2	E_captan		soil
carbendazim	10605-21-7	E_carbendazim		soil
carboxin	5234-68-4	E_carboxin		soil
chlorothalonil	1897-45-6	E_chlorothalonil		soil
cymoxanil	57966-95-7	E_cymoxanil		soil
cyproconazole	113096-99-4	E_cyproconazole		soil
dichlofluanid	1085-98-9	E_dichlofluanid		soil
dicloran	99-30-9	E_dicloran		soil
diethofencarb	87130-20-9	E_diethofencarb		soil
difenoconazole	119446-68-3	E_difenoconazole		soil
dimethomorph	110488-70-5	E_dimethomorph		soil
dinocap	39300-45-3	E_dinocap		soil
diphenylamine	122-39-4	E_diphenylami		soil

emission type name	emission type code	emission type synonymne	emission type description	environment system
dithianon	3347-22-6	E_dithianon		soil
dodemorph	1593-77-7	E_dodemorph		soil
dodine	2439-10-3	E_dodine		soil
edifenphos	17109-49-8	E_edifenphos		soil
epoxiconazole	106325-08-0	E_epoxiconazole		soil
ethirimol	23947-60-6	E_ethirimol		soil
etridiazole	2593-15-9	E_etridiazole		soil
fenarimol	60168-88-9	E_fenarimol		soil
fenbuconazole	114369-43-6	E_fenbuconazole		soil
fenpiclonil	74738-17-3	E_fenpiclonil		soil
fenpropimorph	67564-91-4	E_fenpropimorph		soil
fentin acetate	900-95-8	E_fentin_acetate		soil
fentin hydroxide	76-87-9	E_fentin_hydroxide		soil
ferbam	14484-64-1	E_ferbam		soil
fluazinam	79622-59-6	E_fluazinam		soil
flusilazole	85509-19-9	E_flusilazole		soil
flutolanil	66332-96-5	E_flutolanil		soil
folpet	133-07-3	E_folpet		soil
formaldehyde	50-00-0	E_formaldehyde		soil
fosetyl-aluminium	39148-24-8	E_fosetyl_aluminium		soil
fuberidazole	3878-19-1	E_fuberidazole		soil
furalaxyl	57646-30-7	E_furalaxyl		soil
guazatine	39202-39-6	E_guazatine		soil
hymexazol	10004-44-1	E_hymexazol		soil
imazalil	35554-44-0	E_imazalil		soil
iprobenfos	26087-47-8	E_iprobenfos		soil
iprodione	36734-19-7	E_iprodione		soil
kresoxim-	143390-89-0	E_kresoxim_me		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
methyl		thyl		
mancozeb	8018-01-7	E_mancozeb		soil
maneb	12427-38-2	E_maneb		soil
m-cresol	108-39-4	E_m_cresol		soil
metalaxyl	57837-19-1	E_metalaxyl		soil
metiram	9006-42-2	E_metiram		soil
myclobutanil	88671-89-0	E_myclobutanil		soil
nitrapyrin	1929-82-4	E_nitrapyrin		soil
nitrothal-isopropyl	10552-74-6	E_nitrothal_isopropyl		soil
oxadixyl	77732-09-3	E_oxadixyl		soil
oxycarboxin	5259-88-1	E_oxycarboxin		soil
oxytetracycline	79-57-2	E_oxytetracycline		soil
penconazole	66246-88-6	E_penconazole		soil
pencycuron	66063-05-6	E_pencycuron		soil
prochloraz	67747-09-5	E_prochloraz		soil
procymidone	32809-16-8	E_procymidone		soil
propamocarb	24579-73-5	E_propamocarb		soil
propamocarb hydrochloride	25606-41-1	E_propamocarb_hydrochloride		soil
propiconazole	60207-90-1	E_propiconazole		soil
propineb	12071-83-9	E_propineb		soil
pyrazophos	13457-18-6	E_pyrazophos		soil
pyrifenox	88283-41-4	E_pyrifenox		soil
pyrimethanil	53112-28-0	E_pyrimethanil		soil
tebuconazole	107534-96-3	E_tebuconazole		soil
thiabendazole	148-79-8	E_thiabendazole		soil
thiophanate-methyl	23564-05-8	E_thiophanate_methyl		soil
thiram	137-26-8	E_thiram		soil
tolclofos-methyl	57018-04-9	E_tolclofos_methyl		soil
tolylfluanid	731-27-1	E_tolylfluanid		soil

emission type name	emission type code	emission type synonym	emission type description	environment system
triadimefon	43121-43-3	E_triadimefon		soil
triadimenol	55219-65-3	E_triadimenol		soil
triflumizole	68694-11-1	E_triflumizole		soil
triforine	26644-46-2	E_triforine		soil
validamycin A	37248-47-8	E_validamycin_A		soil
vinclozolin	50471-44-8	E_vinclozolin		soil
zineb	12122-67-7	E_zineb		soil
ziram	137-30-4	E_ziram		soil
chlormequat	7003-89-6	E_chlormequat		soil
chlormequat chloride	999-81-5	E_chlormequat_chloride		soil
daminozide	1596-84-5	E_daminozide		soil
dimethipin	55290-64-7	E_dimethipin		soil
ethephon	16672-87-0	E_ethephon		soil
maleic hydrazide	123-33-1	E_maleic_hydrazide		soil
mepiquat chloride	24307-26-4	E_mepiquat_chloride		soil
paclobutrazol	76738-62-0	E_paclobutrazol		soil
thidiazuron	51707-55-2	E_thidiazuron		soil
aluminium-fosfide	20859-73-8	E_aluminium_fosfide		soil
warfarin	81-81-2	E_warfarin		soil
mineral oils	mineral_oils	E_mineral_oils		soil
nitrogen	7727-37-9	E_nitrogen	nitrogen compounds expressed in amount N	soil
phosphorus	7723-14-0	E_phosphorus	phosphorous compounds expressed in amount P	soil
Ni	14701-22-5	E_Ni	Nickel and nickel compounds expressed in amount Ni	soil
Cr	Cr_compounds	E_Cr	Chromium and chromium compounds (III and VI) expressed in amount Cr	soil
Hg	14302-87-5	E_Hg	Mercury and mercury compounds expressed in amount Hg	soil

emission type name	emission type code	emission type synonym	emission type description	environment system
Pb	14280-50-3	E_Pb	Lead and lead compounds expressed in amount Pb	soil
Zn	23713-49-7	E_Zn	Zinc and zinc compounds expressed in amount Zn	soil
Cu	15158-11-9	E_Cu	Copper and copper compounds expressed in amount Cu	soil
Cd	22537-48-0	E_Cd	Cadmium and cadmium compounds expressed in amount Cd	soil
dichloroethane-1,2 (DCE)	107-06-2	E_1_2_dichloroethane		air
dichloromethane (DCM)	75-09-2	E_dichloromethane		air
hexachlorobenzene (HCB)	85535-84-8	E_hexachlorobenzene		air
hexachlorocyclohexane(HCH)	608-73-1	E_hexachlorocyclohexane		air
PCDD+PCDF (dioxins+furans)	dioxins_furans	E_dioxins_furans		air
pentachlorophenol (PCP)	87-86-5	E_pentachlorophenol		air
tetrachloroethylene (PER)	127-18-4	E_tetrachloroethylene		air
tetrachloromethane (TCM)	56-23-5	E_tetrachloromethane		air
trichlorobenzenes (TCB)	120-82-1	E_trichlorobenzenes		air
trichloroethane-1,1,1 (TCE)	71-55-6	E_1_1_1_trichloroethane		air
trichloroethylene (TRI)	79-01-6	E_trichloroethylene		air
trichloromethane	67-66-3	E_trichloromethane		air
benzene	71-43-2	E_benzene		air
HCN	74-90-8	E_HCN		air
nitrogen	7727-37-9	E_nitrogen	nitrogen compounds expressed in amount N	water

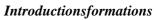| emission type name	emission type code	emission type synonym	emission type description	environment system
phosphorus	7723-14-0	E_phosphorus	phosphorous compounds expressed in amount P	water
As	17428-41-0	E_As	Arsenic and arsenic compounds expressed in amount As	water
Cd	22537-48-0	E_Cd	Cadmium and cadmium compounds expressed in amount Cd	water
Cr	Cr_compounds	E_Cr	Chromium and chromium compounds (III and VI) expressed in amount Cr	water
Cu	15158-11-9	E_Cu	Copper and copper compounds expressed in amount Cu	water
Hg	14302-87-5	E_Hg	Mercury and mercury compounds expressed in amount Hg	water
Ni	14701-22-5	E_Ni	Nickel and nickel compounds expressed in amount Ni	water
Pb	14280-50-3	E_Pb	Lead and lead compounds expressed in amount Pb	water
Zn	23713-49-7	E_Zn	Zinc and zinc compounds expressed in amount Zn	water
dichloroethane-1,2 (DCE)	107-06-2	E_1_2_dichloroethane		water
dichloromethane (DCM)	75-09-2	E_dichloromethane		water
chloroalkanes (C10-13)	85535-84-8	E_chloroalkanes		water
hexachlorobenzene (HCB)	118-74-1	E_hexachlorobenzene		water
hexachlorobutadiene (HCBD)	87-68-3	E_hexachlorobutadiene		water
hexachlorocyclohexane(HCH)	608-73-1	E_hexachlorocyclohexane		water
halogenated organic compounds	HOCs	E_HOCs		water

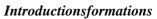| emission type name	emission type code	emission type synonym	emission type description	environment system
organotin - compounds	Organotin_c ompounds	E_organotin_co mpounds	Organic nickel compounds expressed in amount Ni	water
Polycyclic Aromatic Hydrocarbons	PAHs	E_PAHs		water
phenols	phenols	E_phenols		water
total organic carbon (TOC)	toc	E_toc		water
chlorides	chlorides	E_chlorides		water
cyanides	cyanides	E_cyanides		water
fluorides	fluorides	E_fluorides		water
methomyl	16752-77-5	E_methomyl		water

2.10 The entity resource extraction types

Table 2.10: Possible values for the resource extraction types.

extraction type name	extraction type code	extraction type formula	extraction type description	environment system
iron ores	n.a.			nature
bauxite and aluminium ores	n.a.			nature
copper ores	n.a.			nature
lead ores	n.a.			nature
nickel ores	n.a.			nature
tin ores	n.a.			nature
uranium and thorium ores	n.a.			nature
zinc ores	n.a.			nature
precious metal ores	n.a.			nature
other metal ores	n.a.			nature
chemical and fertilizer minerals	n.a.			nature
clays and	n.a.			nature

extraction type name	extraction type code	extraction type formula	extraction type description	environment system
koalin				
limestone, gypsum, chalk, dolomite	n.a.			nature
salt	n.a.			nature
slate	n.a.			nature
other industrial minerals	n.a.			nature
building stones	n.a.			nature
gravel and sand	n.a.			nature
other construction minerals	n.a.			nature
hard coal	n.a.			nature
lignite/brown coal	n.a.			nature
crude oil	n.a.			nature
natural gas	n.a.			nature
natural gas liquids	n.a.			nature
peat for energy use	n.a.			nature
marine fish	n.a.			nature
inland water fish	n.a.			nature
other aquatic animals	n.a.			nature
game	n.a.		Any animal hunted for food or not normally domesticated	nature
wood - timber	n.a.		Only from non production forests	nature
wood - other extractions	n.a.		Only from non production forests	nature
land use	n.a.			nature

extraction type name	extraction type code	extraction type formula	extraction type description	environment system
fresh water use	n.a.			nature
CO2	124-38-9		Uptake of CO2 from air	air

2.11 The entity industry classification

Table 2.11: Possible values for the industry classification.

industry type code	industry type synonym	industry type name
i01.a	A_PARI	Cultivation of paddy rice
i01.b	A_WHEA	Cultivation of wheat
i01.c	A_OCER	Cultivation of cereal grains nec
i01.d	A_FVEG	Cultivation of vegetables, fruit, nuts
i01.e	A_OILS	Cultivation of oil seeds
i01.f	A_SUGB	Cultivation of sugar cane, sugar beet
i01.g	A_FIBR	Cultivation of plant-based fibers
i01.h	A_OTCR	Cultivation of crops nec
i01.i	A_CATL	Cattle farming
i01.j	A_PIGS	Pigs farming
i01.k	A_PLTR	Poultry farming
i01.l	A_OMEA	Meat animals nec
i01.m	A_OANP	Animal products nec
i01.n	A_MILK	Raw milk
i01.o	A_WOOL	Wool, silk-worm cocoons
i02	A_FORE	Forestry, logging and related service activities (02)
i05	A_FISH	Fishing, operating of fish hatcheries and fish farms; service activities incidental to fishing (05)
i10	A_COAL	Mining of coal and lignite; extraction of peat (10)
i11.a	A_COIL	Extraction of crude petroleum and services related to crude oil extraction, excluding surveying
i11.b	A_GASE	Extraction of natural gas and services related to natural gas extraction, excluding surveying

industry type code	industry type synonym	industry type name
i11.c	A_OGPL	Extraction, liquefaction, and regasification of other petroleum and gaseous materials
i12	A_ORAN	Mining of uranium and thorium ores (12)
i13.1	A_IRON	Mining of iron ores
i13.20.11	A_COPO	Mining of copper ores and concentrates
i13.20.12	A_NIKO	Mining of nickel ores and concentrates
i13.20.13	A_ALUO	Mining of aluminium ores and concentrates
i13.20.14	A_PREO	Mining of precious metal ores and concentrates
i13.20.15	A_LZTO	Mining of lead, zinc and tin ores and concentrates
i13.20.16	A_ONFO	Mining of other non-ferrous metal ores and concentrates
i14.1	A_STON	Quarrying of stone
i14.2	A_SDCL	Quarrying of sand and clay
i14.3	A_CHMF	Mining of chemical and fertilizer minerals, production of salt, other mining and quarrying nec
i15.a	A_PCAT	Processing of meat cattle
i15.b	A_PPIG	Processing of meat pigs
i15.c	A_PPLT	Processing of meat poultry
i15.d	A_POME	Production of meat products nec
i15.e	A_VOIL	Processing vegetable oils and fats
i15.f	A_DAIR	Processing of dairy products
i15.g	A_RICE	Processed rice
i15.h	A_SUGR	Sugar refining
i15.i	A_OFOD	Processing of Food products nec
i15.j	A_BEVR	Manufacture of beverages
i15.k	A_FSHP	Manufacture of fish products
i16	A_TOBC	Manufacture of tobacco products (16)
i17	A_TEXT	Manufacture of textiles (17)
i18	A_GARM	Manufacture of wearing apparel; dressing and dyeing of fur (18)
i19	A_LETH	Tanning and dressing of leather;

industry type code	industry type synonym	industry type name
		manufacture of luggage, handbags, saddlery, harness and footwear (19)
i20	A_WOOD	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials (20)
i21	A_PULP	Manufacture of pulp, paper and paper products (21)
i22	A_MDIA	Publishing, printing and reproduction of recorded media (22)
i23.1	A_COKE	Manufacture of coke oven products
i23.20.a	A_GSLN	Manufacture of motor spirit (gasoline)
i23.20.b	A_KERO	Manufacture of kerosene, including kerosene type jet fuel
i23.20.c	A_GSOL	Manufacture of gas oils
i23.20.d	A_OFUL	Manufacture of fuel oils n.e.c.
i23.20.e	A_PGAS	Manufacture of petroleum gases and other gaseous hydrocarbons, except natural gas
i23.20.f	A_OPET	Manufacture of other petroleum products
i23.3	A_NUCF	Processing of nuclear fuel
i24	A_CHEM	Manufacture of chemicals and chemical products (24)
i25	A_RUBP	Manufacture of rubber and plastic products (25)
i26.a	A_GLAS	Manufacture of glass and glass products
i26.b	A_CRMC	Manufacture of ceramic goods
i26.c	A_BRIK	Manufacture of bricks, tiles and construction products, in baked clay
i26.d	A_CMNT	Manufacture of cement, lime and plaster
i26.e	A_ONMM	Manufacture of other non-metallic mineral products n.e.c.
i27.a	A_STEL	Manufacture of basic iron and steel and of ferro-alloys and first products thereof
i27.41	A_PREM	Precious metals production
i27.42	A_ALUM	Aluminium production
i27.43	A_LZTP	Lead, zinc and tin production
i27.44	A_COPP	Copper production

industry type code	industry type synonym	industry type name
i27.45	A_ONFM	Other non-ferrous metal production
i27.5	A_METC	Casting of metals
i28	A_FABM	Manufacture of fabricated metal products, except machinery and equipment (28)
i29	A_MACH	Manufacture of machinery and equipment n.e.c. (29)
i30	A_OFMA	Manufacture of office machinery and computers (30)
i31	A_ELMA	Manufacture of electrical machinery and apparatus n.e.c. (31)
i32	A_RATV	Manufacture of radio, television and communication equipment and apparatus (32)
i33	A_MEIN	Manufacture of medical, precision and optical instruments, watches and clocks (33)
i34	A_MOTO	Manufacture of motor vehicles, trailers and semi-trailers (34)
i35	A_OTRE	Manufacture of other transport equipment (35)
i36	A_FURN	Manufacture of furniture; manufacturing n.e.c. (36)
i37.1	A_RYMS	Recycling of metal waste and scrap
i37.2	A_RYNM	Recycling of non-metal waste and scrap
i40.11.a	A_POWC	Production of electricity by coal
i40.11.b	A_POWG	Production of electricity by gas
i40.11.c	A_POWN	Production of electricity by nuclear
i40.11.d	A_POWH	Production of electricity by hydro
i40.11.e	A_POWW	Production of electricity by wind
i40.11.f	A_POWO	Production of electricity nec, including biomass and waste
i40.12	A_POWT	Transmission of electricity
i40.13	A_POWD	Distribution and trade of electricity
i40.2	A_GASD	Manufacture of gas; distribution of gaseous fuels through mains
i40.3	A_HWAT	Steam and hot water supply
i41	A_WATR	Collection, purification and distribution

industry type code	industry type synonym	industry type name
		of water (41)
i45	A_CONS	Construction (45)
i50.a	A_TDMO	Sale, maintenance, repair of motor vehicles, motor vehicles parts, motorcycles, motor cycles parts and accessories
i50.b	A_TDFU	Retail sale of automotive fuel
i51	A_TDWH	Wholesale trade and commission trade, except of motor vehicles and motorcycles (51)
i52	A_TDRT	Retail trade, except of motor vehicles and motorcycles; repair of personal and household goods (52)
i55	A_HORE	Hotels and restaurants (55)
i60.1	A_TRAI	Transport via railways
i60.2	A_TLND	Other land transport
i60.3	A_TPIP	Transport via pipelines
i61.1	A_TWAS	Sea and coastal water transport
i61.2	A_TWAI	Inland water transport
i62	A_TAIR	Air transport (62)
i63	A_TAUX	Supporting and auxiliary transport activities; activities of travel agencies (63)
i64	A_PTEL	Post and telecommunications (64)
i65	A_FINT	Financial intermediation, except insurance and pension funding (65)
i66	A_FINS	Insurance and pension funding, except compulsory social security (66)
i67	A_FAUX	Activities auxiliary to financial intermediation (67)
i70	A_REAL	Real estate activities (70)
i71	A_MARE	Renting of machinery and equipment without operator and of personal and household goods (71)
i72	A_COMP	Computer and related activities (72)
i73	A_RESD	Research and development (73)
i74	A_OBUS	Other business activities (74)
i75	A_PADF	Public administration and defence; compulsory social security (75)

industry	industry	industry
type code	type synonym	type name
i80	A_EDUC	Education (80)
i85	A_HEAL	Health and social work (85)
i90.01	A_SEWA	Collection and treatment of sewage
i90.02.a	A_WASC	Collection of waste
i90.02.b	A_WASI	Incineration of waste
i90.02.c	A_WASL	Landfill of waste
i90.03	A_SANI	Sanitation, remediation and similar activities
i91	A_ORGA	Activities of membership organisation n.e.c. (91)
i92	A_RECR	Recreational, cultural and sporting activities (92)
i93	A_OSER	Other service activities (93)
i95	A_PRHH	Private households with employed persons (95)
i99	A_EXTO	Extra-territorial organizations and bodies

2.12 The entity product classification

Table 2.12: Possible values for the product classification.

product	product	product
type code	type synonym	type name
p01.a	C_PARI	Paddy rice
p01.b	C_WHEA	Wheat
p01.c	C_OCER	Cereal grains nec
p01.d	C_FVEG	Vegetables, fruit, nuts
p01.e	C_OILS	Oil seeds
p01.f	C_SUGB	Sugar cane, sugar beet
p01.g	C_FIBR	Plant-based fibers
p01.h	C_OTCR	Crops nec
p01.i	C_CATL	Cattle
p01.j	C_PIGS	Pigs
p01.k	C_PLTR	Poultry
p01.l	C_OMEA	Meat animals nec
p01.m	C_OANP	Animal products nec

product type code	product type synonym	product type name
p01.n	C_MILK	Raw milk
p01.o	C_WOOL	Wool, silk-worm cocoons
p02	C_FORE	Products of forestry, logging and related services (02)
p05	C_FISH	Fish and other fishing products; services incidental of fishing (05)
p10	C_COAL	Coal and lignite; peat (10)
p11.a	C_COIL	Crude petroleum and services related to crude oil extraction, excluding surveying
p11.b	C_GASE	Natural gas and services related to natural gas extraction, excluding surveying
p11.c	C_OGPL	Other petroleum and gaseous materials
p12	C_ORAN	Uranium and thorium ores (12)
p13.1	C_IRON	Iron ores
p13.20.11	C_COPO	Copper ores and concentrates
p13.20.12	C_NIKO	Nickel ores and concentrates
p13.20.13	C_ALUO	Aluminium ores and concentrates
p13.20.14	C_PREO	Precious metal ores and concentrates
p13.20.15	C_LZTO	Lead, zinc and tin ores and concentrates
p13.20.16	C_ONFO	Other non-ferrous metal ores and concentrates
p14.1	C_STON	Stone
p14.2	C_SDCL	Sand and clay
p14.3	C_CHMF	Chemical and fertilizer minerals, salt and other mining and quarrying products n.e.c.
p15.a	C_PCAT	Products of meat cattle
p15.b	C_PPIG	Products of meat pigs
p15.c	C_PPLT	Products of meat poultry
p15.d	C_POME	Meat products nec
p15.e	C_VOIL	products of Vegetable oils and fats
p15.f	C_DAIR	Dairy products
p15.g	C_RICE	Processed rice
p15.h	C_SUGR	Sugar
p15.i	C_OFOD	Food products nec

product type code	product type synonym	product type name
p15.j	C_BEVR	Beverages
p15.k	C_FSHP	Fish products
p16	C_TOBC	Tobacco products (16)
p17	C_TEXT	Textiles (17)
p18	C_GARM	Wearing apparel; furs (18)
p19	C_LETH	Leather and leather products (19)
p20	C_WOOD	Wood and products of wood and cork (except furniture); articles of straw and plaiting materials (20)
p21	C_PULP	Pulp, paper and paper products (21)
p22	C_MDIA	Printed matter and recorded media (22)
p23.1	C_COKE	Coke oven products
p23.20.a	C_GSLN	Motor spirit (gasoline)
p23.20.b	C_KERO	Kerosene, including kerosene type jet fuel
p23.20.c	C_GSOL	Gas oils
p23.20.d	C_OFUL	Fuel oils n.e.c.
p23.20.e	C_PGAS	Petroleum gases and other gaseous hydrocarbons, except natural gas
p23.20.f	C_OPET	Other petroleum products
p23.3	C_NUCF	Nuclear fuel
p24	C_CHEM	Chemicals, chemical products and man-made fibres (24)
p25	C_RUBP	Rubber and plastic products (25)
p26.a	C_GLAS	Glass and glass products
p26.b	C_CRMC	Ceramic goods
p26.c	C_BRIK	Bricks, tiles and construction products, in baked clay
p26.d	C_CMNT	Cement, lime and plaster
p26.e	C_ONMM	Other non-metallic mineral products
p27.a	C_STEL	Basic iron and steel and of ferro-alloys and first products thereof
p27.41	C_PREM	Precious metals
p27.42	C_ALUM	Aluminium and aluminium products
p27.43	C_LZTP	Lead, zinc and tin and products thereof
p27.44	C_COPP	Copper products

product type code	product type synonym	product type name
p27.45	C_ONFM	Other non-ferrous metal products
p27.5	C_METC	Foundry work services
p28	C_FABM	Fabricated metal products, except machinery and equipment (28)
p29	C_MACH	Machinery and equipment n.e.c. (29)
p30	C_OFMA	Office machinery and computers (30)
p31	C_ELMA	Electrical machinery and apparatus n.e.c. (31)
p32	C_RATV	Radio, television and communication equipment and apparatus (32)
p33	C_MEIN	Medical, precision and optical instruments, watches and clocks (33)
p34	C_MOTO	Motor vehicles, trailers and semi-trailers (34)
p35	C_OTRE	Other transport equipment (35)
p36	C_FURN	Furniture; other manufactured goods n.e.c. (36)
p37.1	C_RYMS	Metal secondary raw materials
p37.2	C_RYNM	Non-metal secondary raw materials
p40.11.a	C_POWC	Electricity by coal
p40.11.b	C_POWG	Electricity by gas
p40.11.c	C_POWN	Electricity by nuclear
p40.11.d	C_POWH	Electricity by hydro
p40.11.e	C_POWW	Electricity by wind
p40.11.f	C_POWO	Electricity nec, including biomass and waste
p40.12	C_POWT	Transmission services of electricity
p40.13	C_POWD	Distribution and trade services of electricity
p40.2	C_GASD	Manufactured gas and distribution services of gaseous fuels through mains
p40.3	C_HWAT	Steam and hot water supply services
p41	C_WATR	Collected and purified water, distribution services of water (41)
p45	C_CONS	Construction work (45)
p50.a	C_TDMO	Sale, maintenance, repair of motor vehicles, motor vehicles parts, motorcycles, motor cycles parts and

product type code	product type synonym	product type name
		accessories
p50.b	C_TDFU	Retail trade services of motor fuel
p51	C_TDWH	Wholesale trade and commission trade services, except of motor vehicles and motorcycles (51)
p52	C_TDRT	Retail trade services, except of motor vehicles and motorcycles; repair services of personal and household goods (52)
p55	C_HORE	Hotel and restaurant services (55)
p60.1	C_TRAI	Railway transportation services
p60.2	C_TLND	Other land transportation services
p60.3	C_TPIP	Transportation services via pipelines
p61.1	C_TWAS	Sea and coastal water transportation services
p61.2	C_TWAI	Inland water transportation services
p62	C_TAIR	Air transport services (62)
p63	C_TAUX	Supporting and auxiliary transport services; travel agency services (63)
p64	C_PTEL	Post and telecommunication services (64)
p65	C_FINT	Financial intermediation services, except insurance and pension funding services (65)
p66	C_FINS	Insurance and pension funding services, except compulsory social security services (66)
p67	C_FAUX	Services auxiliary to financial intermediation (67)
p70	C_REAL	Real estate services (70)
p71	C_MARE	Renting services of machinery and equipment without operator and of personal and household goods (71)
p72	C_COMP	Computer and related services (72)
p73	C_RESD	Research and development services (73)
p74	C_OBUS	Other business services (74)
p75	C_PADF	Public administration and defence services; compulsory social security services (75)

product type code	product type synonym	product type name
p80	C_EDUC	Education services (80)
p85	C_HEAL	Health and social work services (85)
p90.01	C_SEWA	Collection and treatment services of sewage
p90.02.a	C_WASC	Collection of waste
p90.02.b	C_WASI	Incineration of waste
p90.02.c	C_WASL	Landfill of waste
p90.03	C_SANI	Sanitation, remediation and similar services
p91	C_ORGA	Membership organisation services n.e.c. (91)
p92	C_RECR	Recreational, cultural and sporting services (92)
p93	C_OSER	Other services (93)
p95	C_PRHH	Private households with employed persons (95)
p99	C_EXTO	Extra-territorial organizations and bodies

2.13 The entity intermediate use types

Table 2.13: Possible values for the intermediate use types.

use type name
Domestic use
Import use
Trade and transport margins
Taxes less subsidies

2.14 The entity supply types

Table 2.14: Possible values for the supply types.

Supply type name
Total supply

3 Transformation of the raw data tables into the EXIOPOL system

3.1 General discussion

The EXIOPOL classification of sectors, products, environmental extensions, etc. is new. Therefore, the raw data tables (SUTs, NAMEAs, etc.) that are provided by the statistical offices of the various countries never fit directly into this structure. For each data table, a transformation table has been constructed to accomplish this task. In some cases, entries needed to be merged, in other cases they needed to be split, and there are also cases where both was needed at the same time.

Workstreams III.2 and III.3, dealing with the data in the SUTs per country for the EU and for the main trade partners, develop and apply these transformation tables. Details of these tables will be reported in the various deliverables of the workpackages in those workstreams. The full input transformation tables can be made available only after completion of the data transformation work.

4 Further developments in EXIOPOL

This document describes the state of the nomenclature and transformations for database management system after the first 18 months of the EXIOPOL project. Several further developments will or may take place.

• Classification lists may change.

• Additional entities may be needed or entities may be split up.

Such developments may lead to a readjustment of the database design, and/or of the import templates. One element not yet incorporated here is the treatment of consumer-related activities (Heijungs, 2001c). These entities are specified in a different deliverable, III.2.c-1 and will be incorporated.

One consideration of a more general nature refers to flexibility in the system, which can be realised through hierarchical definition of entities. For example, emissions have been specified at a detailed level, for instance, for different kinds of CFCs. These CFCs may be reported not per species but summed over all CFCs, as a group. Similarly, 131 sector classifications have been defined, which in most cases may be detailed further using existing standard classifications. The product classifications in the trade flows have been aggregated to the 131 product groupings, but might as well be reported in greater detail, for example allowing for the specification of Brazilian soy been production for German pig meat consumption. We will treat this option for increased flexibility in more detail, based on discussions with partners.

List of references

None

Annex I: Contributors to the report

This report is the result of discussions between all partners in the EXIOPOL consortium. It has been edited and written by the following persons:

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