

**Inventory Update Reporting (IUR) Technical Support Document
Replacement of 5-digit NAICS Codes with Industrial Sector (IS) Codes**

Draft

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Executive Summary

The 2006 IUR collection was the first time that EPA collected information on the industrial processing and use of organic chemical substances from manufacturers and importers producing 300,000 pounds or more of an organic chemical substance at a single site (Form U Part III). For 2006, respondents provided the five-digit North American Industry Classification System (NAICS) Code to describe the setting in which industrial processing and use occurred.

EPA examined the 2006 IUR collection and found respondents submitted over 340 unique five-digit NAICS codes. Some of the reported codes were invalid and could not be related to any industrial setting. Other persons left the NAICS code blank or reported that it was not known or readily obtainable. EPA uses the five-digit NAICS code in combination with the industrial function code and process and use code to define a use scenario. The large number of possible three-code combinations has made it more difficult for EPA to group and assess chemicals. EPA is proposing to replace the NAICS code with a new code, Industrial Sector (IS), to describe the industrial setting.

EPA developed the 48 new IS codes by examining the results of the 2006 IUR data collection, reviewing the codes used by the European Union for the Registration, Evaluation, Authorisation and Restriction of Chemical Substances (REACH) program, and considering EPA's use of the IUR data. The proposed IS codes divide the entire range of NAICS codes into a set of 48 segments covering broader ranges of activities. When the reporting for a single NAICS code was frequent, the five-digit NAICS code was replaced by a corresponding IS code. When the reporting of NAICS codes was very infrequent and the exposure scenario was likely to be the same for a range of NAICS codes, a single IS code replaced all NAICS codes beginning with the same digit, i.e. a single IS code replaces all NAICS codes beginning with the number five which indicates services.

Replacing the NAICS codes with a new IS code will have benefits for both EPA and respondents. The new codes will sort the chemicals into broader categories thus reducing the reporting burden on respondents since they do not need to determine a specific five-digit NAICS code. EPA anticipates that using the IS categories will reduce the number of erroneous responses, may reduce the number of confidential business information (CBI) claims, and may reduce the number of unique chemical exposure scenarios that EPA will need to develop for priority setting and risk screening programs.

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1.0 Background

This section provides background information on the IUR reporting requirements, the results of the 2006 IUR data collection, and information on the European Union's chemical use data collection. EPA used this information to develop new Industrial Sector (IS) codes that will replace the five-digit NAICS codes in the 2011 IUR reporting.

1.1 2006 IUR Reporting Requirements

The 2006 IUR collection was the first time that EPA collected information on the industrial processing and use of organic chemical substances from manufacturers producing 300,000 pounds or more of an organic chemical substance at a single site (Part III of IUR Form U). This reporting was in addition to the production volume information collected in previous reporting cycles. The industrial processing and use information is collected using three reporting codes which taken together define a potential exposure scenario:

- Type of Process or Use (P/U) Code – Defines the operations in which the chemical is used.
 - PC: Processing as a reactant
 - PF: Processing – incorporation into formulation, mixture, or reaction product
 - PA: Processing – incorporation into article
 - PK: Processing – repackaging
 - U: Use – non-incorporative activities
- North American Industry Classification System (NAICS) Code – Codes published by the Office of Management and Budget (OMB) to describe the industry in which chemical processing and use may occur. IUR requires submitters to report a five-digit NAICS code.
- Industrial Function Category (IFC) Code – Defines the function of the chemical (e.g., adhesive, flame retardant, solvent). The 2006 IUR utilized 33 IFC codes. Additional information on the 2011 IFC codes can be found in *Overview of Harmonized U.S.-Canada Industrial Function and Consumer and Commercial Product Codes for Chemical Inventory Reporting*, June 2009, prepared by U.S. EPA, Health Canada, and Environment Canada.

EPA uses this information to perform screening-level exposure characterizations for industrial settings.

1.2 2006 IUR Statistics

Based on information from the NAICS Web site (<http://www.census.gov/naics/2007/index.html>), there are 724 possible five-digit NAICS codes that respondents can enter in Part III of the IUR Form U. Two-digit NAICS codes represent general sectors, with additional digits added to further refine the description of the industry. An example of the hierarchy for chemical manufacturing is listed below:

- 31 – 33: Manufacturing
- 325: Chemical Manufacturing
- 3251: Basic Chemical Manufacturing
- 32513: Synthetic Dye and Pigment Manufacturing
- 325131: Inorganic Dye and Pigment Manufacturing

Submissions to the 2006 IUR included over 340 unique five-digit NAICS codes. EPA uses the NAICS code to aid in developing exposure scenarios. Many of the 340 NAICS codes reported are from similar industries that would have similar exposure scenarios. The large number of NAICS codes reported makes it more difficult to group chemicals.

The three-code combination of P/U, NAICS, and IFC is needed to fully describe the industrial processing and use activity; therefore, there are a large number of possible three-code combinations. The 2006 IUR three-code combinations allow almost 120,000 degrees of freedom. Although not all of the NAICS codes are applicable to chemical manufacturing and processing, the 2006 IUR database has over 2,300 unique combinations of P/U, NAICS, and IFC. The large number of unique combinations increases the difficulty and time required to sort and classify chemicals since EPA would either need to develop exposure scenarios for each unique combination or determine which three-code combinations have similar exposure scenarios and can be grouped together.

EPA reviewed information on the extent of confidential business information (CBI) claims for the industrial processing and use information. When considering the three-code combination, which is needed to fully evaluate the exposure scenario, EPA considers the combination CBI if any of the three codes were claimed CBI. The 2006 IUR database had the following CBI claims for the individual data elements:

- P/U – 4,019 of 15,151 entries were claimed CBI (27 percent);
- IFC – 4,190 of 15,151 entries were claimed CBI (28 percent);
- NAICS – 4,476 of 15,151 entries were claimed CBI (30 percent);

When evaluating the CBI status of the three-code combination (at least one code in the reported combination was CBI), approximately 80 percent were claimed CBI. Note that EPA did not evaluate this by chemical; one chemical may have a CBI three-code combination but the same three-code combination may be reported as non-CBI for another chemical.

Table 1 shows the top 25 NAICS codes reported in the 2006 IUR and Table A-1 in Attachment A contains the full list. The IUR database contains 15,151 potential NAICS code entries (number of reports in database version 1.02). As shown in the tables, the chemical manufacturing codes (325 series) were reported most frequently. Some responses reported for NAICS were invalid or did not provide useful information:

- Not Readily Obtainable – Since respondents were submitting information for downstream processing and use, the IUR requirements allowed respondents to enter ‘NRO’ if they did not have readily obtainable information on NAICS code. NRO was reported 693 times.
- Blank – There were 127 submissions that left NAICS code blank.

- Invalid Entries – The IUR database contained several NAICS codes that were not listed on the NAICS Web site (see Table A-1). There were 274 invalid entries.

Invalid, blank, and NRO entries do not provide use information and account for over six percent of the NAICS code responses.

Table 1. Top 25 NAICS Codes

NAICS	2007 NAICS US Title	Number of Times Reported
32519	Other Basic Organic Chemical Manufacturing	3,215
32599	All Other Chemical Product and Preparation Manufacturing	1,380
32521	Resin and Synthetic Rubber Manufacturing	815
32561	Soap and Cleaning Compound Manufacturing	672
32511	Petrochemical Manufacturing	633
32551	Paint and Coating Manufacturing	507
21111	Oil and Gas Extraction	457
32411	Petroleum Refineries	450
32532	Pesticide and Other Agricultural Chemical Manufacturing	392
42469	Other Chemical and Allied Products Merchant Wholesalers	362
32619	Other Plastics Product Manufacturing	320
32552	Adhesive Manufacturing	291
32419	Other Petroleum and Coal Products Manufacturing	268
32518	Other Basic Inorganic Chemical Manufacturing	205
32512	Industrial Gas Manufacturing	196
32212	Paper Mills	170
32513	Synthetic Dye and Pigment Manufacturing	154
32211	Pulp Mills	141
32591	Printing Ink Manufacturing	126
32541	Pharmaceutical and Medicine Manufacturing	113
32629	Other Rubber Product Manufacturing	98
42471	Petroleum Bulk Stations and Terminals	96
32562	Toilet Preparation Manufacturing	91
32611	Plastics Packaging Materials and Unlaminated Film and Sheet Manufacturing	86
31331	Textile and Fabric Finishing Mills	79

1.3 European Union Reporting Codes

EPA reviewed information on the European Union's (EU) Registration, Evaluation, Authorisation and Restriction of Chemical Substances (REACH) program to compare the reporting codes used in REACH to EPA's IUR reporting codes. The following documents describe the codes and categories that are used to describe chemical processing and use under REACH:

- "Technical Guidance Document for Preparing the Chemical Safety Assessment, Part D" dated November 26, 2007 (Guidance Document).
- "Environmental Exposure Assessment: Revision of the Use Pattern Description" dated July 30, 2008 (Use Pattern Revision Document).
- "Guidance on Information Requirements and Chemical Safety Assessment" Chapter R12: Use Descriptor System, May 2008 (Use Descriptor Document).

The EU's use descriptor system is designed such that codes can be linked to a pre-defined environmental release category (ERC) or used in a Tier 1 exposure model (e.g., European Commission on Ecotoxicology and Toxicology (ECETOC) Targeted Risk Assessment model (TRA) or Consumer Exposure model developed by the Netherlands (ConsExpo)). According to the Guidance Document, the use descriptors can help structure and group the identified uses in a sensible way for exposure scenario building and exposure estimation and support consistency and harmonized information across markets.

The EU system uses a Sector of Use (SU) code to provide information on the industrial sector in which a chemical is used. The sector of use is based on the EU's NACE category system which is analogous to the U.S. NAICS codes. NACE codes are similar to NAICS codes in that there is a hierarchy to the numbering system. For example, the beginning of the hierarchy for the agriculture, forestry, and fishing NACE code is listed below:

- A. - Agriculture, forestry and fishing;
- A1. - Crop and animal production, hunting and related service activities;
- A1.1. - Growing of non-perennial crops; and,
- A1.1.1 - Growing of cereals (except rice), leguminous crops and oil seeds.

The SU codes are defined similarly as the NACE codes except SU codes typically only use the first or second levels of the hierarchy. The EU defined SU codes corresponding to second or third level NACE codes for industries that may require additional detail. The codes also group similar NACE codes together. Table A-2 lists the EU SU codes. The EU documents provide a crosswalk between SU and NACE codes.

Examples:

- SU 1 Agriculture, Forestry, and Fishing – Uses top level of NACE hierarchy (NACE Code A);
- SU 4 Manufacture of Food Products – Uses second level of NACE hierarchy to provide additional details (NACE Code C10). The top level for this category (NACE C) is defined as manufacturing;

- SU8 Manufacture of Bulk, Large Scale Chemicals (including petroleum products)
– This category could include NACE codes C19 - Manufacture of coke and refined petroleum products and NACE code C20 - Manufacture of chemicals and chemical products.

The EU system also defines two categories that can be used if one of the 23 defined codes is not applicable:

- SU 0.1 – Other activity related to manufacturing of chemical products; and,
- SU 0.2 – Other activity related to manufacture and services.

The Use Descriptor Document states that the categories are meant to help manufacturers and importers in mapping their markets, which is the starting point for developing exposure scenarios. The categories have been limited to what the EU felt was essential for exposure scenario building and what is needed for the tools used in exposure assessments. If one of the 23 defined categories is not applicable to their chemical, manufacturers are able to select SU0.1 or 0.2 and add a NACE codes if they need to be more specific. In addition, manufacturers can use SU3 – Industrial Manufacturing (all) indicating the substance is broadly used in industry. EPA considered adopting the EU Sector of Use (SU) codes but rejected this idea because the SU codes do not provide sufficient specificity when differentiating between industries.

2.0 Development of New Industrial Sector Codes

EPA used information from the 2006 IUR summary statistics and EU's use code descriptions to develop a code that could be used to replace the NAICS codes. As discussed in Section 1.0, the current system of reporting three-code combinations resulted in over 2,300 different combinations, approximately 80 percent of which were claimed CBI. One of the primary considerations in developing a new replacement code is to reduce the number of choices available to respondents. Reducing the choices available in reporting the three-code industrial processing and use combinations could have several benefits:

1. Fewer three-code combinations would aid EPA in grouping chemicals for priority setting.
2. Broader categories could lead to fewer CBI claims.
3. Broader categories may reduce the number of blank or NRO responses since respondents may know the general industrial category but not the specific five-digit NAICS code.

For these reasons, EPA evaluated whether a reporting code could be used in place of the NAICS code used in the 2006 IUR. Of the IUR reporting codes, the NAICS code has the largest number of possible choices. EPA first considered whether using NAICS codes with fewer digits would be preferable to the five-digit NAICS. Table 2 shows the number of possible NAICS codes for each reporting level.

Table 2. Number of Codes in Each NAICS Reporting Level

NAICS Length	Number of Codes
2-Digit	17
3-Digit	99
4-Digit	313
5-Digit	724
6-Digit	1,175

Using the three-digit code still allows almost 100 different responses while using the two-digit code would be insufficient for EPA's needs. In reviewing the code descriptions, the three-digit code may be insufficient in some cases. The 2006 IUR statistics in Table A-1 show that over 60 percent of the NAICS codes reported were in the chemical manufacturing series (325 series). EPA would require a higher level of detail than provided with a three-digit code in this series. For example, EPA would want to distinguish soaps and detergents (3256) from paints and coatings (32551) since these chemicals would likely have different use, exposure, and release scenarios.

EPA developed the industrial sector codes (IS) to group similar NAICS codes together while still providing the detail required for the chemical manufacturing codes. Table 3 at the end of this memorandum lists the new IS codes, a description of the code, the rationale for selecting the codes, and the link between the IS code and the NAICS system. In developing the IS codes, EPA considered the level of detail required for developing use and exposure scenarios, the number of 2006 IUR submissions using the code, the code definition, and the level of difficulty required in reporting more detailed codes. For example, only 39 of 15,151 submissions reported codes in the Agriculture series (NAICS code 11).

The five-digit NAICS codes for this series distinguish the type of animal or crop raised (e.g., 11111 – Soybean Farming; 11115 – Corn Farming). Since exposure scenarios are not likely to be dependent upon type of crop or animal, EPA defined one IS code for all agricultural activities. However, submissions in the chemical manufacturing sector (325 series) would have different exposure scenarios; therefore, EPA developed IS codes with more detail for this sector.

The 48 IS codes in Table 3 provide sufficient detail on industrial sector and can be used in combination with the process/use code and industrial function to define the industrial processing and use activity. By replacing the NAICS codes with the IS code, the number of potential three-code combinations is reduced by about 93 percent to 7,920 combinations. It is likely that the number of combinations actually reported would be significantly less. Table 4 shows the number of times each IS code would have been reported in the 2006 IUR.

Table 5 provides a simpler view of Table 3 which can be used as a crosswalk between the NAICS code and IS code. Respondents who know the NAICS code can easily identify the IS code from Table 5. Respondents that do not know a specific NAICS code may be able to identify a more general category.

EPA developed the IS codes from the NAICS system. U.S. manufacturers are familiar with the NAICS system since it is used in many regulatory programs. Respondents can use the NAICS/IS crosswalk to easily translate the NAICS codes they reported in the 2006 IUR to the new IS code.

3.0 Advantages of Industrial Sector Codes

Replacing the NAICS codes with the IS codes has several advantages during IUR data collection, processing, and analysis:

Data Collection

- Reduces the number of unique industrial sectors for respondents to select. Respondents will still be able to translate known NAICS codes to IS codes. Respondents that do not know the specific NAICS code may be able to provide the more descriptive IS code, thus reducing the number of NROs or blanks reported.
- Reduces the number of three-code combinations that respondents need to report. Currently, respondents only report the ten three-code combinations that account for the highest percentages of the production volume. Reducing the number of combinations may provide EPA with more information for some chemicals.
- Broader groups may reduce burden on respondents since they do not need to determine a specific five-digit NAICS code.

Data Processing and Analysis

- Chemicals are automatically classified into fewer groups which will reduce the number of unique chemical exposure scenarios and help EPA prioritize and screen chemicals.
- May reduce the number of invalid entries since there will likely be fewer transcription errors (e.g., 32591 instead of 32519).
- The IS codes can be easily programmed into the e-IUR software.
- The broader IS codes may result in fewer CBI claims which will allow EPA to make more information available to the public.
- The IS codes more closely align to the EU Sector of Use codes which will allow EPA to compare U.S. data with that collected by the EU.

Table 3. Industrial Sector (IS) Codes to Replace Five-Digit NAICS

2007 NAICS US Code	2007 NAICS US Title	Industrial Sector Code	Title	Change/Rationale
11	Agriculture, Forestry, Fishing and Hunting	IS1	Agriculture, Forestry, Fishing and Hunting	39 of 15,151 responses used NAICS codes in the 11 series (<1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS which are divided by type of crop.
211	Oil and Gas Extraction	IS2	Oil and Gas Drilling, Extraction, and Support Activities	3-digit NAICS should be sufficient to distinguish oil and gas extraction activities.
212	Mining (except Oil and Gas)	IS3	Mining (except Oil and Gas)	3-digit NAICS should be sufficient to distinguish mining, quarrying, and oil and gas extraction activities.
22	Utilities	IS4	Utilities	163 of 15,151 responses used NAICS codes in the 22 series (~1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS.
23	Construction	IS5	Construction	132 of 15,151 responses used NAICS codes in the 23 series (<1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS.
311	Food Manufacturing	IS6	Food, beverage, and tobacco product manufacturing	198 of 15,151 responses used NAICS codes in the 311 and 312 series (~1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS.
312	Beverage and Tobacco Product Manufacturing			
313	Textile Mills	IS7	Textiles, apparel, and leather manufacturing	164 of 15,151 responses used NAICS codes in this series (~1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS.
314	Textile Product Mills			
315	Apparel Manufacturing			
316	Leather and Allied Product Manufacturing			

Table 3. Industrial Sector (IS) Codes to Replace Five-Digit NAICS

2007 NAICS US Code	2007 NAICS US Title	Industrial Sector Code	Title	Change/Rationale
321	Wood Product Manufacturing	IS8	Wood Product Manufacturing	3-digit NAICS should be sufficient for this category.
322	Paper Manufacturing	IS9	Paper Manufacturing	3-digit NAICS should be sufficient for this category.
323	Printing and Related Support Activities	IS10	Printing and Related Support Activities	3-digit NAICS should be sufficient for this category.
32411	Petroleum Refineries	IS11	Petroleum Refineries	790 of 15,151 responses used NAICS codes in the 324 series (~5%). EPA developed more specific IS codes for this category.
32412	Asphalt Paving, Roofing, and Coating Materials Manufacturing	IS12	Asphalt Paving, Roofing, and Coating Materials Manufacturing	
324191	Petroleum Lubricating Oil and Grease Manufacturing	IS13	Petroleum Lubricating Oil and Grease Manufacturing	
324199	All Other Petroleum and Coal Products Manufacturing	IS14	All Other Petroleum and Coal Products Manufacturing	
32511	Petrochemical Manufacturing	IS15	Petrochemical Manufacturing	
32512	Industrial Gas Manufacturing	IS16	Industrial Gas Manufacturing	Approximately 60% of responses used NAICS codes in the 325 - Chemical Manufacturing series; therefore, the greatest level of detail is needed for this category.
32513	Synthetic Dye and Pigment Manufacturing	IS17	Synthetic Dye and Pigment Manufacturing	
325182	Carbon Black Manufacturing	IS18	Carbon Black Manufacturing	
32518	Other Basic Inorganic Chemical Manufacturing	IS19	All Other Basic Inorganic Chemical Manufacturing	
325192	Cyclic Crude and Intermediate Manufacturing	IS20	Cyclic Crude and Intermediate Manufacturing	
32519	Other Basic Organic Chemical Manufacturing	IS21	All Other Basic Organic Chemical Manufacturing	
325211	Plastics Material and Resin Manufacturing	IS22	Plastics Material and Resin Manufacturing	
325212	Synthetic Rubber Manufacturing	IS23	Synthetic Rubber Manufacturing	
325221, 325222	Organic Fiber Manufacturing	IS24	Organic Fiber Manufacturing	
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	IS25	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	

Table 3. Industrial Sector (IS) Codes to Replace Five-Digit NAICS

2007 NAICS US Code	2007 NAICS US Title	Industrial Sector Code	Title	Change/Rationale
3254	Pharmaceutical and Medicine Manufacturing	IS26	Pharmaceutical and Medicine Manufacturing	
32551	Paint and Coating Manufacturing	IS27	Paint and Coating Manufacturing	
32552	Adhesive Manufacturing	IS28	Adhesive Manufacturing	
3256	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	IS29	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	
32591	Printing Ink Manufacturing	IS30	Printing Ink Manufacturing	
32592	Explosives Manufacturing	IS31	Explosives Manufacturing	
325991	Custom Compounding of Purchased Resins	IS32	Custom Compounding of Purchased Resins	
325992	Photographic Film Paper, Plate, and Chemical Manufacturing	IS33	Photographic Film, Paper, Plate, and Chemical Manufacturing	
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing	IS34	All Other Chemical Product and Preparation Manufacturing	
3261	Plastics Product Manufacturing	IS35	Plastics Product Manufacturing	
3262	Rubber Product Manufacturing	IS36	Rubber Product Manufacturing	4-digit NAICS should be sufficient for this category.
327	Nonmetallic Mineral Product Manufacturing	IS37	Nonmetallic Mineral Product Manufacturing (includes clay, glass, cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing.	157 of 15,151 responses used NAICS codes in the 327 series (~1%). It is likely that specific chemicals would not need to be linked to the more detailed NAICS.
331	Primary Metal Manufacturing	IS38	Primary Metal Manufacturing	3-digit NAICS should be sufficient for this category.
332	Fabricated Metal Product Manufacturing	IS39	Fabricated Metal Product Manufacturing	3-digit NAICS should be sufficient for this category.
333	Machinery Manufacturing	IS40	Machinery Manufacturing	3-digit NAICS should be sufficient for this category.
334	Computer and Electronic Product Manufacturing	IS41	Computer and Electronic Product Manufacturing	3-digit NAICS should be sufficient for this category.
335	Electrical Equipment, Appliance, and Component Manufacturing	IS42	Electrical Equipment, Appliance, and Component Manufacturing	3-digit NAICS should be sufficient for this category.
336	Transportation Equipment Manufacturing	IS43	Transportation Equipment Manufacturing	3-digit NAICS should be sufficient for this category.

Table 3. Industrial Sector (IS) Codes to Replace Five-Digit NAICS

2007 NAICS US Code	2007 NAICS US Title	Industrial Sector Code	Title	Change/Rationale
337	Furniture and Related Product Manufacturing	IS44	Furniture and Related Product Manufacturing	3-digit NAICS should be sufficient for this category.
339	Miscellaneous Manufacturing	IS45	Miscellaneous Manufacturing	3-digit NAICS should be sufficient for this category.
42	Wholesale Trade	IS46	Wholesale and Retail Trade	These are not manufacturing NAICS codes; therefore, 2-digit NAICS should be sufficient.
44-45	Retail Trade			
48-49	Transportation and Warehousing			
51	Information	IS47	Services	These are not manufacturing NAICS codes; therefore, 2-digit NAICS should be sufficient.
52	Finance and Insurance			
53	Real Estate and Rental and Leasing			
54	Professional, Scientific, and Technical Services			
55	Management of Companies and Enterprises			
56	Administrative and Support and Waste Management and Remediation Services			
61	Educational Services			
62	Health Care and Social Assistance			
71	Arts, Entertainment, and Recreation			
72	Accommodation and Food Services			
81	Other Services (except Public Administration)			
92	Public Administration			
		IS48	Other	Users can enter descriptive text.

Data Source: IUR Database Version 1.02

Table 4. Number of Times New IS Codes Would Have Been Reported

IS Code	IS Title	Number of Times Reported
IS1	Agriculture, Forestry, Fishing and Hunting	39
IS2	Oil and Gas Drilling, Extraction, and Support Activities	520
IS3	Mining (except Oil and Gas)	89
IS4	Utilities	157
IS5	Construction	116
IS6	Food, beverage, and tobacco product manufacturing	196
IS7	Textiles, apparel, and leather manufacturing	164
IS8	Wood Product Manufacturing	54
IS9	Paper Manufacturing	483
IS10	Printing and Related Support Activities	41
IS11	Petroleum Refineries	450
IS12	Asphalt Paving, Roofing, and Coating Materials Manufacturing	72
IS13	Petroleum Lubricating Oil and Grease Manufacturing	See notes
IS14	All Other Petroleum and Coal Products Manufacturing	See notes
IS15	Petrochemical Manufacturing	633
IS16	Industrial Gas Manufacturing	196
IS17	Synthetic Dye and Pigment Manufacturing	154
IS18	Carbon Black Manufacturing	See notes
IS19	All Other Basic Inorganic Chemical Manufacturing	See notes
IS20	Cyclic Crude and Intermediate Manufacturing	See notes
IS21	All Other Basic Organic Chemical Manufacturing	See notes
IS22	Plastics Material and Resin Manufacturing	See notes
IS23	Synthetic Rubber Manufacturing	See notes
IS24	Organic Fiber Manufacturing	57
IS25	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	459
IS26	Pharmaceutical and Medicine Manufacturing	115
IS27	Paint and Coating Manufacturing	507
IS28	Adhesive Manufacturing	291
IS29	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	763
IS30	Printing Ink Manufacturing	126
IS31	Explosives Manufacturing	26
IS32	Custom Compounding of Purchased Resin	See notes
IS33	Photographic Film, Paper, Plate, and Chemical Manufacturing	See notes
IS34	All Other Chemical Product and Preparation Manufacturing	See notes
IS35	Plastics Product Manufacturing	582
IS36	Rubber Product Manufacturing	220
IS37	Nonmetallic Mineral Product Manufacturing (includes clay, glass, cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing).	157
IS38	Primary Metal Manufacturing	154
IS39	Fabricated Metal Product Manufacturing	95
IS40	Machinery Manufacturing	67
IS41	Computer and Electronic Product Manufacturing	73
IS42	Electrical Equipment, Appliance, and Component Manufacturing	69
IS43	Transportation Equipment Manufacturing	120

IS Code	IS Title	Number of Times Reported
IS44	Furniture and Related Product Manufacturing	13
IS45	Miscellaneous Manufacturing	65
IS46	Wholesale and Retail Trade	857
IS47	Services	122

Data Source: IUR Database Version 1.02

Notes: IS codes that are matched to a 6-digit NAICS code could not be counted since 6-digit NAICS codes were not reported in the 2006 IUR.

IS13 and IS14 – NAICS code 32419 was reported 268 times; it is not possible to divide this between codes IS13 and IS14.
 IS18 and IS19 – NAICS code 32518 was reported 205 times; it is not possible to divide this between codes IS18 and IS19.
 IS20 and IS21 – NAICS code 32519 was reported 3,215 times; it is not possible to divide this between codes IS20 and IS21.
 IS22 and IS23 – NAICS code 32521 was reported 815 times; it is not possible to divide this between codes IS22 and IS23.
 IS32, IS33, and IS34 – NAICS code 32599 was reported 1,380 times; it is not possible to divide this between codes IS32, IS33, and IS34.

Table 5. NAICS and IS Crosswalk

NAICS	IS Code	IS Title
11	IS1	Agriculture, Forestry, Fishing and Hunting
211	IS2	Oil and Gas Drilling, Extraction, and Support Activities
213		
212	IS3	Mining (except Oil and Gas)
22	IS4	Utilities
23	IS5	Construction
311	IS6	Food, beverage, and tobacco product manufacturing
312		
313	IS7	Textiles, apparel, and leather manufacturing
314		
315		
316		
321	IS8	Wood Product Manufacturing
322	IS9	Paper Manufacturing
323	IS10	Printing and Related Support Activities
32411	IS11	Petroleum Refineries
32412	IS12	Asphalt Paving, Roofing, and Coating Materials Manufacturing
324191	IS13	Petroleum Lubricating Oil and Grease Manufacturing
324199	IS14	All Other Petroleum and Coal Products Manufacturing
32511	IS15	Petrochemical Manufacturing
32512	IS16	Industrial Gas Manufacturing
32513	IS17	Synthetic Dye and Pigment Manufacturing
325182	IS18	Carbon Black Manufacturing
32518	IS19	All Other Basic Inorganic Chemical Manufacturing
325192	IS20	Cyclic Crude and Intermediate Manufacturing
32519	IS21	All Other Basic Organic Chemical Manufacturing
325211	IS22	Plastic Material and Resin Manufacturing
325212	IS23	Synthetic Rubber Manufacturing
32522	IS24	Organic Fiber Manufacturing
3253	IS25	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing
3254	IS26	Pharmaceutical and Medicine Manufacturing
32551	IS27	Paint and Coating Manufacturing
32552	IS28	Adhesive Manufacturing
3256	IS29	Soap, Cleaning Compound, and Toilet Preparation Manufacturing
32591	IS30	Printing Ink Manufacturing
32592	IS31	Explosives Manufacturing
325991	IS32	Custom Compounding of Purchased Resin
325992	IS33	Photographic Film Paper, Plate, and Chemical Manufacturing
325998	IS34	All Other Chemical Product and Preparation Manufacturing
3261	IS35	Plastics Product Manufacturing
3262	IS36	Rubber Product Manufacturing
327	IS37	Nonmetallic Mineral Product Manufacturing (includes clay, glass, cement, concrete, lime, gypsum, and other nonmetallic mineral product manufacturing.
331	IS38	Primary Metal Manufacturing

NAICS	IS Code	IS Title
332	IS39	Fabricated Metal Product Manufacturing
333	IS40	Machinery Manufacturing
334	IS41	Computer and Electronic Product Manufacturing
335	IS42	Electrical Equipment, Appliance, and Component Manufacturing
336	IS43	Transportation Equipment Manufacturing
337	IS44	Furniture and Related Product Manufacturing
339	IS45	Miscellaneous Manufacturing
42	IS46	Wholesale and Retail Trade
44		
45		
48		
49		
51	IS47	Services
52		
53		
54		
55		
56		
61		
62		
71		
72		
81		
92		
	IS48	Other

Appendix A – Additional Information

Table A-1. NAICS Codes Reported in 2006 IUR

NAICS	2007 NAICS US Title ^a	Number of Times Reported
00000		9
11111	Soybean Farming	2
11115	Corn Farming	2
11142	Nursery and Floriculture Production	1
11191	Tobacco Farming	1
11193	Sugarcane Farming	1
11199	All Other Crop Farming	22
11211	Beef Cattle Ranching and Farming, including Feedlots	1
11221	Hog and Pig Farming	1
11511	Support Activities for Crop Production	5
11521	Support Activities for Animal Production	2
11531	Support Activities for Forestry	1
21111	Oil and Gas Extraction	457
21112		4
21211	Coal Mining	8
21221	Iron Ore Mining	13
21222	Gold Ore and Silver Ore Mining	4
21223	Copper, Nickel, Lead, and Zinc Mining	19
21229	Other Metal Ore Mining	9
21231	Stone Mining and Quarrying	3
21232	Sand, Gravel, Clay, and Ceramic and Refractory Minerals Mining and Quarrying	4
21233		1
21239	Other Nonmetallic Mineral Mining and Quarrying	28
21311	Support Activities for Mining	63
21342		1
21519		2
22111	Electric Power Generation	59
22112	Electric Power Transmission, Control, and Distribution	4
22121	Natural Gas Distribution	48
22130		3
22131	Water Supply and Irrigation Systems	27
22132	Sewage Treatment Facilities	17
22133	Steam and Air-Conditioning Supply	2
22212		3
23411		12
23531		1
23561		1
23599		3
23611	Residential Building Construction	3
23612		1

^a NAICS codes without titles were not found on the U.S. Census Bureau NAICS Web site (<http://www.census.gov/cgi-bin/sssd/naics/naicsrch>). Searching for these entries resulted in the message ‘XXXXX is not a valid 2007 NAICS code.’

NAICS	2007 NAICS US Title^a	Number of Times Reported
23621	Industrial Building Construction	2
23622	Commercial and Institutional Building Construction	12
23711	Water and Sewer Line and Related Structures Construction	1
23712	Oil and Gas Pipeline and Related Structures Construction	3
23730		1
23731	Highway, Street, and Bridge Construction	44
23811	Poured Concrete Foundation and Structure Contractors	9
23812	Structural Steel and Precast Concrete Contractors	2
23814	Masonry Contractors	8
23816	Roofing Contractors	2
23819	Other Foundation, Structure, and Building Exterior Contractors	1
23821	Electrical Contractors and Other Wiring Installation Contractors	1
23822	Plumbing, Heating, and Air-Conditioning Contractors	8
23831	Drywall and Insulation Contractors	1
23832	Painting and Wall Covering Contractors	4
23833	Flooring Contractors	4
23839	Other Building Finishing Contractors	2
23891	Site Preparation Contractors	4
23899	All Other Specialty Trade Contractors	2
25193		3
25212		3
31111	Animal Food Manufacturing	28
31119		2
31122	Starch and Vegetable Fats and Oils Manufacturing	17
31131	Sugar Manufacturing	6
31134	Nonchocolate Confectionery Manufacturing	1
31141	Frozen Food Manufacturing	1
31142	Fruit and Vegetable Canning, Pickling, and Drying	1
31151	Dairy Product (except Frozen) Manufacturing	6
31161	Animal Slaughtering and Processing	5
31181	Bread and Bakery Product Manufacturing	3
31191	Snack Food Manufacturing	3
31192	Coffee and Tea Manufacturing	2
31193	Flavoring Syrup and Concentrate Manufacturing	3
31194	Seasoning and Dressing Manufacturing	3
31199	All Other Food Manufacturing	88
31211	Soft Drink and Ice Manufacturing	11
31214	Distilleries	10
31222	Tobacco Product Manufacturing	8
31311	Fiber, Yarn, and Thread Mills	18
31321	Broadwoven Fabric Mills	3
31322	Narrow Fabric Mills and Schiffli Machine Embroidery	1
31331	Textile and Fabric Finishing Mills	79
31332	Fabric Coating Mills	1
31411	Carpet and Rug Mills	8
31499	All Other Textile Product Mills	14
31511	Hosiery and Sock Mills	2
31519	Other Apparel Knitting Mills	5

NAICS	2007 NAICS US Title^a	Number of Times Reported
31611	Leather and Hide Tanning and Finishing	32
31621	Footwear Manufacturing	1
32111	Sawmills and Wood Preservation	7
32121	Veneer, Plywood, and Engineered Wood Product Manufacturing	12
32141		1
32159		4
32191	Millwork	2
32199	All Other Wood Product Manufacturing	33
32211	Pulp Mills	141
322110	Pulp Mills	1
32212	Paper Mills	170
32213	Paperboard Mills	65
32221	Paperboard Container Manufacturing	50
32222	Paper Bag and Coated and Treated Paper Manufacturing	29
32223	Stationery Product Manufacturing	3
32229	Other Converted Paper Product Manufacturing	24
32251		1
32311	Printing	35
32312	Support Activities for Printing	6
32321		2
32331		1
32351		2
32371		1
32411	Petroleum Refineries	450
32412	Asphalt Paving, Roofing, and Saturated Materials Manufacturing	72
32418		1
32419	Other Petroleum and Coal Products Manufacturing	268
32441		1
32510		4
32511	Petrochemical Manufacturing	633
32512	Industrial Gas Manufacturing	196
32513	Synthetic Dye and Pigment Manufacturing	154
32514		1
32515		1
32518	Other Basic Inorganic Chemical Manufacturing	205
32519	Other Basic Organic Chemical Manufacturing	3215
32521	Resin and Synthetic Rubber Manufacturing	815
32522	Artificial and Synthetic Fibers and Filaments Manufacturing	57
32530		2
32531	Fertilizer Manufacturing	67
32532	Pesticide and Other Agricultural Chemical Manufacturing	392
32540		2
32541	Pharmaceutical and Medicine Manufacturing	113
32550		4
32551	Paint and Coating Manufacturing	507
32552	Adhesive Manufacturing	291
32559		9
32561	Soap and Cleaning Compound Manufacturing	672

NAICS	2007 NAICS US Title^a	Number of Times Reported
32562	Toilet Preparation Manufacturing	91
32579		2
32591	Printing Ink Manufacturing	126
32592	Explosives Manufacturing	26
32599	All Other Chemical Product and Preparation Manufacturing	1380
32611	Plastics Packaging Materials and Unlaminated Film and Sheet Manufacturing	86
32612	Plastics Pipe, Pipe Fitting, and Unlaminated Profile Shape Manufacturing	47
32613	Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing	20
32614	Polystyrene Foam Product Manufacturing	25
32615	Urethane and Other Foam Product (except Polystyrene) Manufacturing	72
32616	Plastics Bottle Manufacturing	12
32619	Other Plastics Product Manufacturing	320
32621	Tire Manufacturing	68
32622	Rubber and Plastics Hoses and Belting Manufacturing	54
32629	Other Rubber Product Manufacturing	98
32651		2
32699		1
32711	Pottery, Ceramics, and Plumbing Fixture Manufacturing	6
32712	Clay Building Material and Refractories Manufacturing	9
32721	Glass and Glass Product Manufacturing	17
32731	Cement Manufacturing	62
32732	Ready-Mix Concrete Manufacturing	9
32733	Concrete Pipe, Brick, and Block Manufacturing	4
32739	Other Concrete Product Manufacturing	18
32742	Gypsum Product Manufacturing	9
32791	Abrasive Product Manufacturing	4
32799	All Other Nonmetallic Mineral Product Manufacturing	19
32911		1
32951		1
33111	Iron and Steel Mills and Ferroalloy Manufacturing	71
33121	Iron and Steel Pipe and Tube Manufacturing from Purchased Steel	6
33122	Rolling and Drawing of Purchased Steel	12
33131	Alumina and Aluminum Production and Processing	26
33141	Nonferrous Metal (except Aluminum) Smelting and Refining	6
33142	Copper Rolling, Drawing, Extruding, and Alloying	3
33149	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, Extruding, and Alloying	4
33151	Ferrous Metal Foundries	21
33152	Nonferrous Metal Foundries	5
33210		2
33211	Forging and Stamping	2
33221	Cutlery and Handtool Manufacturing	2
33231	Plate Work and Fabricated Structural Product Manufacturing	16
33232	Ornamental and Architectural Metal Products Manufacturing	3
33241	Power Boiler and Heat Exchanger Manufacturing	1
33243	Metal Can, Box, and Other Metal Container (Light Gauge) Manufacturing	2

NAICS	2007 NAICS US Title^a	Number of Times Reported
33251	Hardware Manufacturing	2
33252		1
33261	Spring and Wire Product Manufacturing	4
33271	Machine Shops	7
33272	Turned Product and Screw, Nut, and Bolt Manufacturing	1
33281	Coating, Engraving, Heat Treating, and Allied Activities	19
33299	All Other Fabricated Metal Product Manufacturing	35
33311	Agricultural Implement Manufacturing	3
33312	Construction Machinery Manufacturing	5
33313	Mining and Oil and Gas Field Machinery Manufacturing	8
33322	Plastics and Rubber Industry Machinery Manufacturing	2
33329	Other Industrial Machinery Manufacturing	3
33331	Commercial and Service Industry Machinery Manufacturing	6
33341	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing	20
33351	Metalworking Machinery Manufacturing	6
33361	Engine, Turbine, and Power Transmission Equipment Manufacturing	1
33391	Pump and Compressor Manufacturing	4
33392	Material Handling Equipment Manufacturing	2
333924	Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing	1
33399	All Other General Purpose Machinery Manufacturing	6
33411	Computer and Peripheral Equipment Manufacturing	11
33431	Audio and Video Equipment Manufacturing	1
33441	Semiconductor and Other Electronic Component Manufacturing	51
33451	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	6
33461	Manufacturing and Reproducing Magnetic and Optical Media	4
33511	Electric Lamp Bulb and Part Manufacturing	1
33512	Lighting Fixture Manufacturing	2
33521	Small Electrical Appliance Manufacturing	1
33522	Major Appliance Manufacturing	6
33531	Electrical Equipment Manufacturing	4
33552		1
33591	Battery Manufacturing	11
33592	Communication and Energy Wire and Cable Manufacturing	8
33593	Wiring Device Manufacturing	8
33599	All Other Electrical Equipment and Component Manufacturing	27
33611	Automobile and Light Duty Motor Vehicle Manufacturing	55
33612	Heavy Duty Truck Manufacturing	6
33621	Motor Vehicle Body and Trailer Manufacturing	8
33631	Motor Vehicle Gasoline Engine and Engine Parts Manufacturing	1
33634	Motor Vehicle Brake System Manufacturing	1
33635	Motor Vehicle Transmission and Power Train Parts Manufacturing	2
33636	Motor Vehicle Seating and Interior Trim Manufacturing	4
33637	Motor Vehicle Metal Stamping	1
33639	Other Motor Vehicle Parts Manufacturing	17
33641	Aerospace Product and Parts Manufacturing	10
33651	Railroad Rolling Stock Manufacturing	8

NAICS	2007 NAICS US Title^a	Number of Times Reported
33661	Ship and Boat Building	4
33699	Other Transportation Equipment Manufacturing	3
33711	Wood Kitchen Cabinet and Countertop Manufacturing	4
33712	Household and Institutional Furniture Manufacturing	6
33721	Office Furniture (including Fixtures) Manufacturing	1
33792	Blind and Shade Manufacturing	2
33911	Medical Equipment and Supplies Manufacturing	8
33933		1
33992	Sporting and Athletic Goods Manufacturing	5
33993	Doll, Toy, and Game Manufacturing	1
33994	Office Supplies (except Paper) Manufacturing	1
33995	Sign Manufacturing	1
33999	All Other Miscellaneous Manufacturing	49
34211		2
35218		1
35219		5
35552		4
36211		1
42164		2
42174		1
42261		1
42269		19
42271		2
42291		2
42312	Motor Vehicle Supplies and New Parts Merchant Wholesalers	1
42314	Motor Vehicle Parts (Used) Merchant Wholesalers	1
42333	Roofing, Siding, and Insulation Material Merchant Wholesalers	1
42351	Metal Service Centers and Other Metal Merchant Wholesalers	1
42362	Electrical and Electronic Appliance, Television, and Radio Set Merchant Wholesalers	1
42372	Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	1
42373	Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers	2
42374	Refrigeration Equipment and Supplies Merchant Wholesalers	5
42381	Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers	1
42382	Farm and Garden Machinery and Equipment Merchant Wholesalers	2
42383	Industrial Machinery and Equipment Merchant Wholesalers	2
42384	Industrial Supplies Merchant Wholesalers	6
42385	Service Establishment Equipment and Supplies Merchant Wholesalers	1
42386	Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers	3
42391	Sporting and Recreational Goods and Supplies Merchant Wholesalers	2
42392	Toy and Hobby Goods and Supplies Merchant Wholesalers	1
42393	Recyclable Material Merchant Wholesalers	3
42399	Other Miscellaneous Durable Goods Merchant Wholesalers	11
42411	Printing and Writing Paper Merchant Wholesalers	1
42417		4

NAICS	2007 NAICS US Title^a	Number of Times Reported
42442	Packaged Frozen Food Merchant Wholesalers	1
42447	Meat and Meat Product Merchant Wholesalers	1
42448	Fresh Fruit and Vegetable Merchant Wholesalers	1
42459	Other Farm Product Raw Material Merchant Wholesalers	1
42461	Plastics Materials and Basic Forms and Shapes Merchant Wholesalers	13
42468		1
42469	Other Chemical and Allied Products Merchant Wholesalers	362
42471	Petroleum Bulk Stations and Terminals	96
42472	Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)	61
42491	Farm Supplies Merchant Wholesalers	12
42495	Paint, Varnish, and Supplies Merchant Wholesalers	9
42511	Business to Business Electronic Markets	1
42512	Wholesale Trade Agents and Brokers	3
44121	Recreational Vehicle Dealers	1
44131	Automotive Parts and Accessories Stores	4
44132	Tire Dealers	1
44413	Hardware Stores	2
44511	Supermarkets and Other Grocery (except Convenience) Stores	1
44512	Convenience Stores	1
44612	Cosmetics, Beauty Supplies, and Perfume Stores	1
44711	Gasoline Stations with Convenience Stores	31
44719	Other Gasoline Stations	21
44819	Other Clothing Stores	2
45431	Fuel Dealers	69
45439	Other Direct Selling Establishments	5
48111	Scheduled Air Transportation	1
48211	Rail Transportation	3
48311	Deep Sea, Coastal, and Great Lakes Water Transportation	14
48411	General Freight Trucking, Local	1
48511	Urban Transit Systems	1
48611	Pipeline Transportation of Crude Oil	1
48621	Pipeline Transportation of Natural Gas	4
48691	Pipeline Transportation of Refined Petroleum Products	33
48811	Airport Operations	3
48819	Other Support Activities for Air Transportation	1
48831	Port and Harbor Operations	1
48832	Marine Cargo Handling	3
48849	Other Support Activities for Road Transportation	1
49311	General Warehousing and Storage	42
49313	Farm Product Warehousing and Storage	1
49319	Other Warehousing and Storage	1
52314	Commodity Contracts Brokerage	1
54138	Testing Laboratories	17
54143	Graphic Design Services	1
54171	Research and Development in the Physical, Engineering, and Life Sciences	5
56121	Facilities Support Services	6
56172	Janitorial Services	1

NAICS	2007 NAICS US Title^a	Number of Times Reported
56179	Other Services to Buildings and Dwellings	1
56221	Waste Treatment and Disposal	12
56291	Remediation Services	2
56299	All Other Waste Management Services	1
61111	Elementary and Secondary Schools	1
61131	Colleges, Universities, and Professional Schools	1
61151	Technical and Trade Schools	1
61169	All Other Schools and Instruction	4
62211	General Medical and Surgical Hospitals	1
62561		1
71141	Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures	2
71394	Fitness and Recreational Sports Centers	1
81111	Automotive Mechanical and Electrical Repair and Maintenance	4
81112	Automotive Body, Paint, Interior, and Glass Repair	12
81119	Other Automotive Repair and Maintenance	1
81121	Electronic and Precision Equipment Repair and Maintenance	1
81131	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	6
81141	Home and Garden Equipment and Appliance Repair and Maintenance	1
81211	Hair, Nail, and Skin Care Services	1
81232	Drycleaning and Laundry Services (except Coin-Operated)	4
81292	Photofinishing	21
81411	Private Households	1
87415		7
92411	Administration of Air and Water Resource and Solid Waste Management Programs	1
92532		1
92811	National Security	11
99216		1
Blank		127
NRO		693

Table A-2. EU Sector of Use Codes

Code	Definition
SU 0.1	Other activity related to manufacturing of chemical products
SU 0.2	Other activity related to manufacture and services
SU 1	Agriculture, forestry, fishery
SU 2	Mining, (including offshore industries)
SU 3	Industrial Manufacturing (all)
SU 4	Manufacture of food products
SU 5	Manufacture of textiles, leather, fur
SU 6	Manufacture of paper and paper products
SU 7	Printing and reproduction of recorded media
SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9	Manufacture of fine chemicals
SU 10	Chemical formulation and/or re-packaging
SU 11	Manufacture of rubber products
SU 12	Manufacture of plastics products, including compounding and conversion
SU 13	Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 14	Manufacture of basic metals
SU 15	Manufacture of fabricated metal products, except machinery and equipment
SU 16	Manufacture of computer, electronic and optical products, electrical equipment
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.
SU 18	Manufacture of furniture
SU 19	Building and construction work
SU 20	Health services
SU 21	Private households (= general public = consumers)
SU 22	Public domain (administration, education, entertainment, services, craftsmen)
SU 23	Recycling