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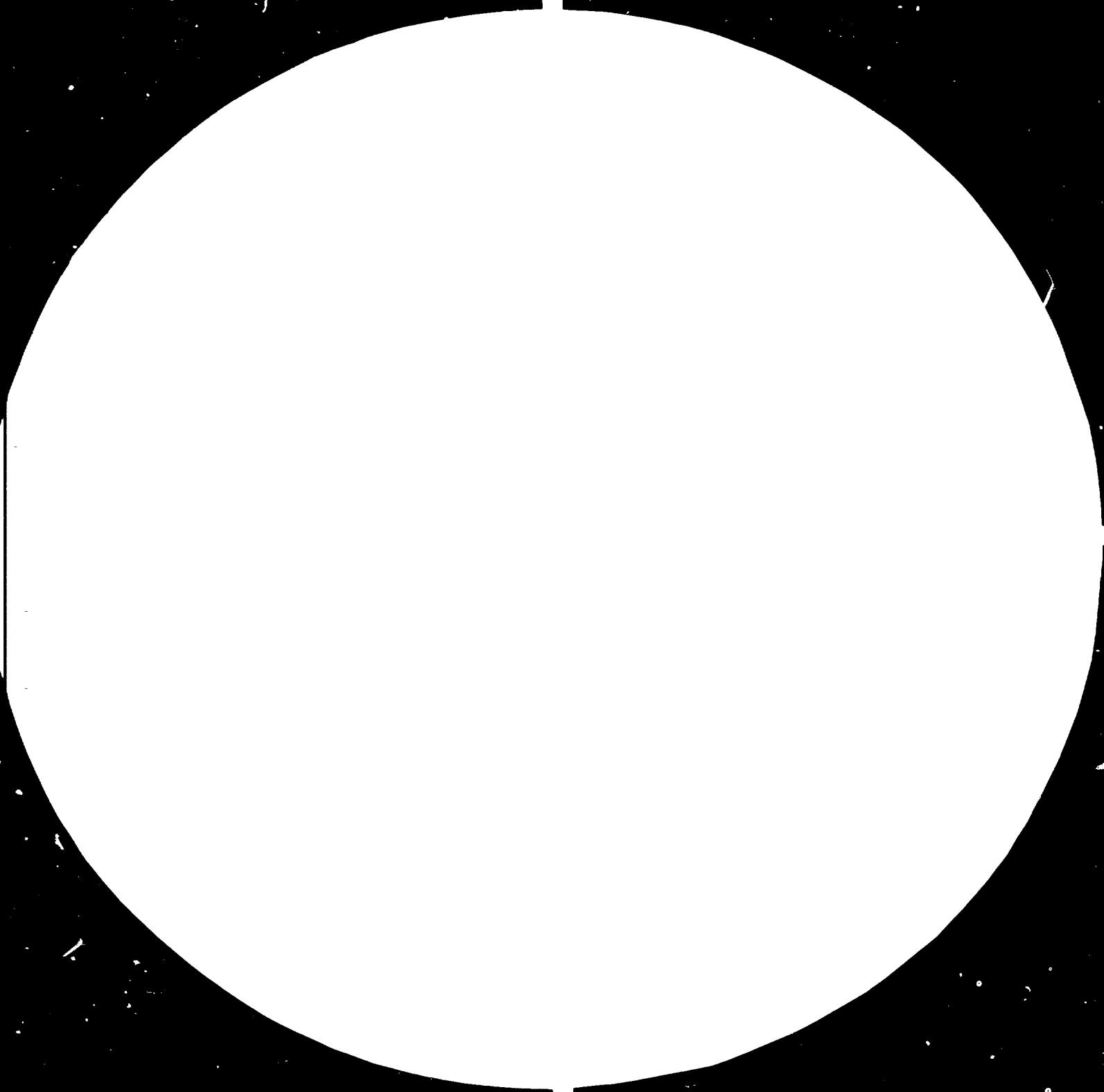
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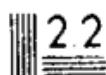


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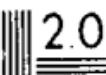
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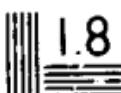
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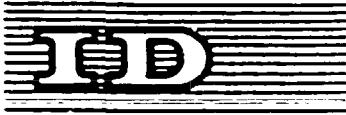
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Sixth Meeting of Heads of Technology Registries
Manila, Philippines, 25 - 28 November 1981

TECHNOLOGY INFORMATION EXCHANGE SYSTEM (TIES) DATA EVALUATION*

Prepared by the Secretariat of UNIDO

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Summary

The information exchanged through the TIES system is assisting the National Registries or technology transfer focal points in the execution of their tasks, which include inter alia regulations, promotion, monitoring and co-ordinating of technology flows into individual countries. The present paper describes briefly how information exchanged through this system could be further used at the national level by other institutes besides technology Registries. In particular, it analyses the attempts made by the UNIDO secretariat to make better use of the TIES data, as recommended at the Buenos Aires Meeting of Heads of Technology Transfer Registries in September 1980. Special emphasis is given to the possibility to list technology suppliers by sector and product and recommendations are made as to how to link this particular aspect of the TIES system with UNIDO's Industrial and Technological Information Bank (INTIB).

Introduction

Technology Transfer Registries collect and store information on technology transfer contracts approved or registered with them. Such information systems cannot be seen as an end, but only as a means to accomplish certain specific goals of the Registry concerned. Information vis a vis the main tasks of a Registry, that is effective regulation, monitoring, promotion and co-ordination of technology transfer flows, may therefore be seen as complementing each other.

Such information systems may be divided into two main areas:

- (a) collection and storage of information. This part is mainly concerned with the day to day work of the Registry on individual contracts;
- (b) statistical analysis and preparation of reports (for different users). This part is concerned with inter alia:
 - (i) assessment of trends of characteristics of contractual technology inflow at country level;
 - (ii) assessment of the efficiency of government regulations;
 - (iii) assessment of the impact of imported technology on the national economical/technological/scientific structures of the national level;
 - (iv) extension services for domestic business and scientific community;
 - (v) linkage with compatible international information systems.

TIES

The TIES system was established with the objective to supplement the national information systems through an exchange of data on technology transfer contracts from other countries. The type of information exchanged has been defined by the participating Registries themselves and the system has been operational for some three years with a data base of 6000 contracts. At national level this overall information system has been proved to be useful for the evaluation of individual contracts and for the assessment of trends and characteristics of contractual inflow vis a vis other individual countries or vis a vis general world trends.

At the Buenos Aires Meeting of Heads of Technology Transfer Registries, UNIDO secretariat paper "Proposed Guidelines for Analysis of Specific Industrial Sectors" was discussed and endorsed. These guidelines outlined apart from the sectorial studies, ways in which TIES data could be used to supplement national studies. These could be summarized as follows:

- (1) Summary tables on TIES I data on the most relevant sectors, identifying national experience;
- (2) Trends on terms and conditions of agreements;
- (3) List of technology suppliers in each sector.

An attempt to implement this recommendation has been made by the UNIDO secretariat for the pharmaceutical industry. The results have been circulated among the TIES members (annex I). Apart from a positive appraisal by the Technology Transfer Board of the Philippines, no substantial comments about the practical use of such information has been received from any other Registry.

Technology Suppliers

Many developing countries face difficulties in the process of acquisition of technology. The need of adequate information on available technologies has been emphasized in many international fora including TIES meetings.

The TIES system, in a modest way, has proven to be a good tool in providing such information to the developing countries. Even the minimum level of exchange (TIES I) supplies information on the parties involved and the industry sector concerned.

As can be observed from the supplier of technology listing in the pharmaceutical industry sector, reference material can be obtained on technologies which have been proven and transferred. However, reservation about the usefulness should be expressed. The TIES system describes in very broad terms the characteristics of the process and product for which the technology transferred is intended. It has left to the individual Registry the decision to which extent information on the transferred technology is made available. The example of the pharmaceutical industry sector shows that it is difficult to identify technology suppliers for specific products. Using the five digit product classification, as required by the present coding agreement, ampicillin production would be classified as antibiotics and vitamin C production as medicaments. It becomes therefore impossible to locate a technology supplier for ampicillin or vitamin C in the present TIES system.

In addition, different Registries supply data at different pre-established levels (TIES I, IIA and IIB) but also at different levels of accuracy. It must be mentioned in this context that the performance of the system relies largely on the work of people charged with the data collection and storage at the different national levels and on the uniformity of the criteria followed.

The present listing of technology suppliers could therefore be made more useful for the national Registries as a potential source of information for the national business community in the process of acquisition of technology. For example, the data supplied by the Korean Registry provides besides the data required for participation at IIB level, some extra information on product, process or industry. An example of this data is attached for information and comments (Annex II). The UNIDO secretariat is of the opinion that information, which describes the object of the technology transferred in more detail, should not be treated in a confidential manner and hence need to be supplied by all participating countries.

The Industrial and Technological Information Bank (INTIB)

One of the main objectives of INTIB is to describe a full range of technologies, with their advantages and disadvantages, to assist decision makers in their proper choice according to national conditions or policies. INTIB was initiated as a pilot operation in 1977, and since 1980 is now an ongoing activity of UNIDO covering some 20 industrial sectors. ... component of UNIDO's Technology Programme.

In concrete terms, INTIB has three main activities:

- (a) provision of answers to specific inquiries related to the selection of technology;
- (b) preparation of industrial and technological profiles;
- (c) establishing a network of National Centres.

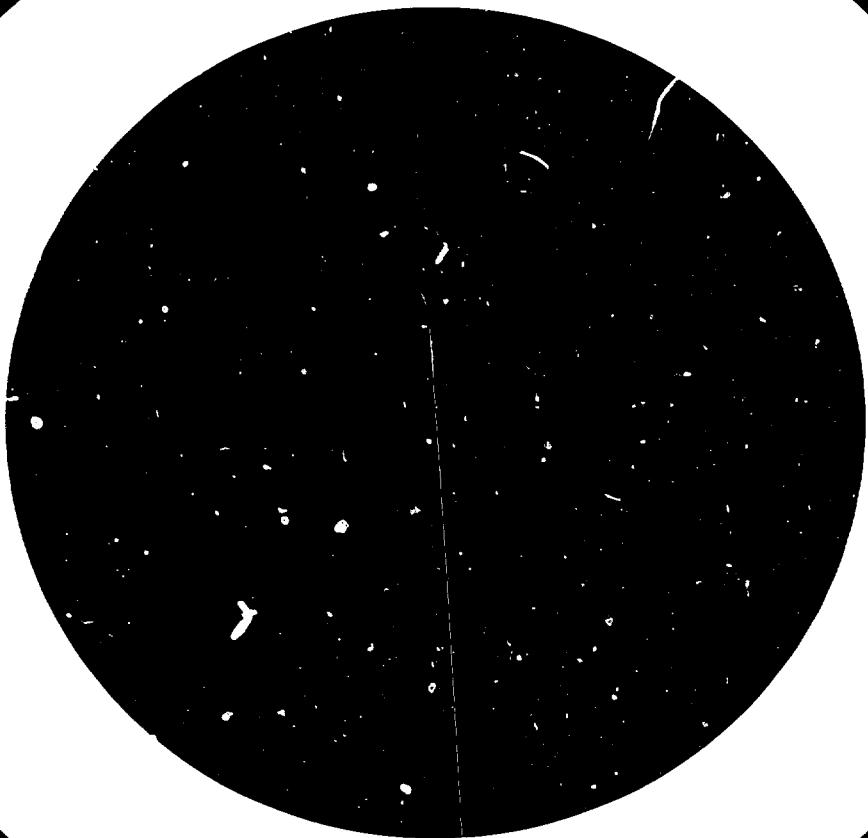
The activities of INTIB show that it could link with a National Registry in one area, namely the extension service for the domestic business community. A recent study in Mexico demonstrated that through providing minor amounts of technical information to industries exploring the purchase of technology abroad their pattern of decision making changed. This result indicates that Registries should play an active role in promoting information services on technology suppliers. INTIB on one hand could be instrumental for TIES members in providing information on technology suppliers not adequately covered by the TIES system and on the other hand could disseminate TIES information on technology suppliers to non TIES member countries.

Recommendations

In view of the foregoing in the previous chapters, the UNIDC secretariat would like to recommend for consideration:

- (1) TIES members exchange data at the minimum level of TIES IIA;
- (2) The minimum level of information exchanged will be, recipient country, industrial code, supplier country, contract date, collaboration type, product code, recipient company, supplier company, comments on industry, comments on product and comments on process;
- (3) Information to be exchanged will be supplied in a uniform level of accuracy and for this purpose the coding manual will be amended and a section on "comments" will be introduced which could read:

- (a) comments on industry detailed but concise description of the industry for which the technology is intended. As a guideline could be used "U.N. publication indexes to the international standard classification of all economic activities" (example Annex III);
- (b) comments on products. Description of the product for which the technology is intended;
- (c) comments on process. Concise description of the process for which the technology is intended. This section should only be completed if the object of the technology transferred could not be adequately described by product or industry
- (4) TIES IIA data is not considered confidential and can be obtained by all TIES members;
- (5) Technology supplier listings, which will correlate supplier company, recipient company and product characteristics, will be made available through INTIB to non TIES members;
- (6) Initiation of the previous recommendations will commence with the data supplied for the period July - December 1981;
- (7) TIES studies, like the ones recommended at the Buenos Aires Meeting will be continued in other industrial sectors, subject to active participation of all TIES members in the evaluation process of such data.



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THE STATE LAW WHICH REQUIRES AN ESTATE PLANNING AGREEMENT IS STILL IN CONCLUDING STAGE AND IS EXPECTED TO BE APPROVED BY THE END OF THIS MONTH.

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- 1 -

TIES SUMMARY TABLE INDUSTRY CODE 3522 - MANUFACTURE OF DRUGS AND MEDICINE

LICENSE	KNOW-HOW	TRADEMARK	PATENT	JOINT VENTURE	TECH. ASSIST.	BASIC ENG.	DETAILED ENG.	MANAGEMENT SERV	TRAINING	TOTAL	TOTAL NO. OF CONTRACTS	COMMENTS
ALGERIA		20	19	6		10				13	68	20
ARGENTINA		47	56	13		12				2	130	78
COLUMBIA	1		9			3					13	12
P.R. OF CHINA												0
EGYPT												0
REP. OF KOREA		22	1	2		2	3		1	1	32	27
MAIL/ISIA						1					1	1
MEXICO			5			5					10	16
PHILIPPINES		22	20	19		14					75	21
PORTUGAL		36	23	5		2			1	1	68	38
SPAIN	8	43	28	5		2			4	1	91	49
VENEZUELA	8	5		1		7					21	12
	17	195	161	51		58	3		6	10	509	268

TRENDS IN THE MURATION OF CONTRACTS - SECTOR 3522 MANUFACTURE OF DRUGS AND MEDICINE

COUNTRY	1975 AND BEFORE		1976		1977		1978		1979		1980	
	NO OF CONTRACTS - AVERAGE											
COLOMBIA			1	3	1	3	1	3	2	3	7	3.4
MEXICO	3 7	10.1 99										
PORTUGAL									14	5.2	24	5.2
REP. OF KOREA	22 1	4.7 99	3	6.7								
SPAIN	24 4	4.0 99	1	5	2	5	4 2	5 99	4 3	6 99	4 1	6 99
VENEZUELA							4	5	7	5	1	5

12/06/81

TECHNOLOGY SUPPLIER

SUP CNTY	SUPPLIER NAME
AUS	PAHKE DAVIS & CO.
BEL	CHEMIE LINZ AG.
BER	JANSSEN PHARMACEUTICA
DRA	HOFFMANN LA ROCHE PRODUCTS
DEN	LABORATORIO ALVIN & FREITAS
FRA	LEO PHARMACEUT.LTD
FRA	SLSIF
FRA	THERAPLIX
FRA	SOC.D'ETUDES SCIENTIFIQUES ET DIETIQUE + SANTE
FRA	L'AIR LIQUIDE
FRA	LABORATOIRE MILLOT SA
FRA	SOC.ETUDES SCIENTIFIQUES ET
FRA	LABORATOIRES ROUSSEL
FRA	LABURATHOIH VIRBAC
FRA	LAUZ SA
FRA	SOC.ETUDES SCIENTIFIQUE/INDUS
FRA	CLIN MIDY INTERNATIONAL SARL
FRA	LEMATTE&BOINOT GRP. ASTRA-SUEDE
FRA	RHONE-POULENC SANTE SA
FRA	LABORATOIRES ALLARD SA
FRA	CENTRE EUROPEENDE RECHERCHES
FRA	LAB.FRANCAIS DE THERAPEUTIQUE
FRA	LAB.DE THERAPEUTIQUE MODERNE
FRA	LES LABORATOIRES DE L'ODOTHINE
FRA	LABORATOIRE SEARLE
FRA	ROUSSEL-UCLAF SA
FRA	LABORATOIRES UCB FRAYSSE SA
FRA	LABORATOIRES LELONG SA
FRA	INSTITUT RUNCHESE SA
FRA	LABORATOIRES SERVIER SA
FRA	SOC.PARISTIENNE RECHERCHES ET
FRA	LABORATOIRES U.P.S.A
FRA	LABORATOIRES SERVIER
FRA	LABORATOIRES LAFARGE
FRA	S.E.S.I.F.
FRA	LAUZ S.A.
FRA	LABORATOIRES JOULLIE
FRA	LABORATOIRES MILLOT S.A.
FRA	LABS. SARGET
FRA	LAUS.DEBAT
FRA	DIETLTIQUE SANTE
FRA	LABORATOIRES PFIZER SARL
FRA	LES LABORATOIRES BRISTOL
FRA	LABORATOIRES CATEMA S A
FRA	BENRI BALZAC SA
FRA	CM INDUSTRIES SA
FRA	LABORATOIRES DIBIOS SA
FRA	CM INDUSTRIES SA
FRA	L'OREAL SA
FRA	L'OREAL S.A.
GFR	C.H.BOEHRINGER SOHN
GFR	SMERING A.G.

**FOR MANUFACTURE OF DRUGS AND MEDICINE
SUPPLIER ADDRESS**

SH.PETER-STRASSE 25 A-4020 LENZ		590.998	MEX
BEERSE		553.00A	ARG
CHURCH STREET	HAMILTON	541.71	ARG
RUA XAVIER DE TOLEDO 22 10 PAVIMENTO		541.71	ARG
		553.0	ARG
		541.7	PUR
		541.	SPA
98 RUE DE SEVRES	PARIS	541.	NUK
INDUSTRIELS		541.	SPA
		541.	SPA
		541.	SPA
		541.	SPA
IND.DELILE FRANCAIS		541.1	VEN
BLVD DES INVALIDES	75007 PARIS	541.61	ARG
		541.64	SPA
39 AVENUE IER DE SERBIE PARIS 75008		541.7	ALG
DE L'ILE DE FRANCE SA 46 LATOUR PARIS		541.7	ALG
20 RUE DES FOSSES ST-JACQUES 75240 PARIS		541.7	ALG
52 RUE LA BRUYERE PARIS 75009		541.7	ALG
22 AVENUE MONTAIGNE PARIS 75008		541.7	ALG
10 AVENUE DE MESSINE PARIS 75008		541.7	ALG
HAUVERNAZ ROUTE DE MARSA 63201 RION		541.7	ALG
41-55 RUE DE TAIZIA BORDEAUX		541.7	ALG
11 BIS RUE BALZAC PARIS 75038		541.7	ALG
18-22 RUE D'AHNAS 92003 NANTERRE		541.7	ALG
7 BD ROMAIN ROLLAND 92120 MONTROUGE		541.7	ALG
35 BOULEVARD DES INVALIDES PARIS 75007		541.7	ALG
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6 RUE FELIX PYAT PUTEAUX 92800		541.7	ALG
AV.MORANE SAULNIER 23-25 MEUDON 92 360		541.7	ALG
		541.7	PUR
		541.7	SPA
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32 RUE DE L'ARCADE PARIS 75008		541.71	ALG
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20 RUE DES FOSSES SAINT JACQUES 75240		541.79	ARG
		541.9	PUR
20 RUE DES FOSSES ST JACQUES PARIS		541.99	ARG
14 RUE ROYALE PARIS		553.0	ARG
14 RUE ROYALE PARIS		553.00A	ARG
		541.	NUK
		541.	NUK

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PAGE 2

SUP CNTY	SUPPLIER NAME	SUPPLIER ADDRESS	PRODUCTI	CNTY
GFR	J.PFRIEMER AND	HOFMANNSTR. 26	541-	HOK
GFR	CH BOEHRINGER SOHN	8520 ERLANG	541-	SPA
GFR	CH BOEHRINGER SOHN		541-	SPA
GFR	DR KARL THOMAE GMBH		541-	SPA
GFR	CHEMISCHE FABRIK KREUSSLER CO.		541-	SPA
GFR	KALI CHEMIE PHARMA G.M.B.H.	HANS BOCKLER ALLE 20HANNOVER	541-	ARG
GFR	E.MERCK	FRANKFURTERSTR.250 DAHMSTADT	541-1	ECU
GFR	CHEMIELWERK HOMB		541-1	VEN
GFR	KALI CHEMIE PHARMA GMBH	HANNOVER	541-1	VEN
GFR	C H BOEHRINGER SOHN	INGELHEIM AM RHEIN	541-1	ARG
GFR	KNOLL A G	67 LUDWIGSCHAFFEN KNOLLSTRASSE 50	541-1	ARG
GFR	KUMHANDITGESELLSCHAFT	SACIISENRING 37 47 5000 COLONIA I	541-59	ARG
GFR	HOECHST AG	POSTFACH 800 320 6000 FRANKFURT-MAIN	541-7	PER
GFR	SCHERING AG	MUELLERSTR. 170-178 1000 BERLIN	541-7	PER
GFR	BENE-CHEMIE GMBH		541-7	PER
GFR	E.NECK A.G.		541-7	PER
GFR	BAYLR AKTIENGESELLSCHAFT	5090 LEVERKUSEN BAYERWERK	541-7	ARG
GFR	BENE-CHEMIE GMBH		541-71	PER
GFR	C H BOEHRINGER SOHN	6507 INGELHEIM RHEIN	541-71	ARG
GFR	BOEHRINGER MANNHEIM GMBH	6800 MANNHEIM SANDHOFERSTRASSE 110	541-71	ARG
GFR	HOECHST A.G.	FRANKFURT MAIN	541-71	ARG
GFR	NORDMARK WERKE GMBH		541-79	VEN
GFR	ASTA WERKE AG		541-79	VEN
GFR	NORDMARK WERKE GMBH	2082 VETERSEN 9 POSTFACH 44	541-79	ARG
GFR	KLINGE PHARMA GMBH & CO	LEOPOLDSTRASSE 16 MUNICH 40	541-79	ARG
GFR	BUENOS AIRES BAYER AG	8090 LEVERKUSEN BAYERWERK	541-79	ARG
GFR	BLIERSDORF AG	CHINASTRASSE 48 HAMBURG 20	541-91	PER
GFR	BAYER AG.		598.998	MEX
GRC	NEDHEL HELLAS S.A.		541-7	PER
IUN	MEDIMPEX		598.99	MEX
ITA	FIDIA SPA		541-	SPA
ITA	INSTITUTO D' ANGELI SPC		541-	SPA
ITA	VERA CASCIOOTTE		541-	SPA
ITA	INSTITUTO DERMATOLOGICO		541-	SPA
ITA	SELVI & CO.SPA		541-3	MEX
ITA	JUAN ROLOVICH GIANI-TETRO CLEM.		541-3	VEN
ITA	PIENREL S.P.A.	201MILANO VIA TURATIMILAN	541-7	CUL
ITA	GIUSEPPE SEBASTIANINI		541-31	PER
ITA	CARLO ERBA S.P.A.	MILAN	541-32	HOK
ITA	GRUPPO LEPESTIT S.P.A.	20124-BVIA R.LEPETITMILAN	541-33	CUL
ITA	SOC.PRODOTTI ANTIBIOTICI SPA		541-7	PER
ITA	SIMES SPA		541-7	PER
ITA	ROTTA REASEARCH LABORATORIUM		541-7	PER
ITA	RUTTA REASEARCH LABORATORIUM		541-7	PER
ITA	FARNEX SPA		541-7	PER
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ITA	SIMES	BELLERIO 41 MILAN	541-79	ARG
ITA	INVERNİ DELLA BEFFA SPA	MILAN	541-9	VEN
ITA	LARK SPA		541-99	VEN
ITA	SIGMA TAU INDUSTRIE	VIALE SHAKESPEARE ROME	541-99	ARG
JPN	AJINOMOTO CO IN	1-CHOME KYOBASHI TOKYO	523-	PER
JPN	IWAKE SEIYAKU CO.LTD.	1.NIHOMBASHI HONCHO 4-CHOME CHUOKU,TOKYO	541-	PER

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SUP CNTY	SUPPLIER NAME	TECHNOLOGY SUPPLIER FOR MANUFACTURE OF DRUGS AND MEDICINE SUPPLIER ADDRESS	PRODUCT	CNTY
JPN	FUJI CHEMICAL IND.CO.LTD.	55 YOKOHUNJI	541.	HUK
JPN	KEIJI SEIKI KAISHA LTD.	8-2CHOME KYODASHI	541.	HUK
JPN	SANKYO CO.LTD.	7-12-2-CHOME,GINZA	541.	HUK
JPN	DAIECHI SEIYAKU CO.LTD.	TOKYO	541.	HUK
JPN	ONO PHARMACEUTICAL COMPANY LTD	14 DOSHOMACHI 2	541.1	ARG
JPN	NIIGATA EMS.CO.LTD.	27-7-2-CHOME	541.3	HUK
JPN	TANABE SEIYAKU CO. LTD		541.61	MEX
JPN	HEIJI SEIKA KAISHA LTD		541.7	PDR
JPN	DAINIPPON PHARMCO.LTD.		541.7	PDR
JPN	BANYU PHARMACEUTICAL CO.LTD.		541.7	PDR
JPN	YAMANOUCHE INTERNATIONAL		541.7	SPA
JPN	FUJISAWA PHARMACEUTICAL CO.LTD	9-2-CHOME NIHONBASHI KONCHO CHUOKU TOKYO	541.71	ARG
JPN	TAREDA CHEMICAL INDUSTRIES LTD	3 DOSHOMACHI 4 CHOMEHIGASHI KU OSAKA	541.71	ARG
JPN	HONEY OTAFUKUWATA KABUSHIKI	27 DOSHOMACHI 2 CHOMEHIGASHI KU OSAKA	541.79	ARG
JPN	NICHIDAN KABUSHIKI KAISHA	1-63 MEIJI-HACHI FUKUOKA CITY	541.91	HUK
JPN	HISANTTSU PHARMACEUTICAL CO.	2-4-2-CHOME,KUDAN CHIYODA-KU TOKYO	541.91	HUK
JPN	TAKEDA CHEMICAL INDUSTRIES LTD	27 DOSHOMACHI 2-CHOME HIGASHI KU OSAKA	541.99	ARG
JPN	SUMITOMO CHEMICAL CO LTD	15 5 CHOME KITAAMA HIGASHI KU OSAKA	591.1	ARG
LIE	FINANZ KOMPENSATIONSANSTALT		541.7	PDR
LUX	ADMIN. DE PARTICIPATIONS ETRANG	ERES SA BLIND ROYALE LUXEMBURG	561.	ARG
NET	GIST-BROCADES N.V.		541.3	PDR
NOR	CULLET A/S		541.1	PDR
PAN	PFIZER CO.	335 EAST 42ND ST. NEW YORK, NY	541.	HUK
PAN	PFIZER CORP.		541.3	MEX
PAN	BIOCHEFER CONSULTING		541.3	SPA
PAN	BIOCHEFER CONSULTING		541.3	SPA
PAN	EUROPHARMA INTL INC		541.4	MEX
PAN	HOEMMERS INTL.		541.7	PDR
PAN	SYNTEX CORPORATION	P.O.BOX 7386 PANAMA 9	541.71	COL
PAN	PFIZER CORP	STA ISABEL 15 1/2 COLON	541.71	ARG
PAN	MEDICAL RESEARCH LABS INC.	I ARROSEMORA Y 31 3 80	541.79	ARG
SPA	JOLDER, S.A.		541.	PDR
SPA	LABORATORIO PRODES S.A.	TRABAJO S/N SAN LUSTU DES VERN BARCELONA	541.	ARG
SPA	LABORATORIO B.O.I. S.A.		541.7	PDR
SPA	BOEHINGER MANNHEIM S.A.		541.7	PDR
SWE	ASTRA CAKEMEDEL AB	5 151 85 SODERTALJE	541.71	ARG
SWE	ASTRA PHARMACEUTICALS	5-151 85 SODERTALJE	541.99	COL
SWE	RLBAPHARM	BASEL	281.6	VEN
SWI	SANDOZ LTD.		541.	HUK
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE SA	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE SA	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	F.HOFFMANN LA ROCHE	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	SAPOS SA	GRENZACHERSTR. 124 4002 BASEL	541.	SPA
SWI	SAPOS SA	GRENZACHERSTR. 124 4002 BASEL	541.	SPA

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SUP CNTY

TECHNOLOGY SUPPLIER
SUPPLIER NAME

SWI	ELI LILLY SA
SWI	F HOFFMANN LA ROCHE SA
SWI	F.HOFFMANN LA ROCHE
SWI	LUGOCHEMIE SA
SWI	LABORATOIRES OM
SWI	PHAROMGA SA
SWI	PHARURGA SA
SWI	SANATEX SA
SWI	F.HUFFMAN ROCHE & CIE LTD
SWI	ELI LILLY S.A.
SWI	HAUSMANN LABORATORIES
SWI	F.HOFFMANN-LA ROCHE ET CIE SA
SWI	SANDOZ SA
SWI	SOPHARMA SA
SWI	SIPHAR S.A.
SWI	MUNDIPHARMA AG
SWI	CILAG CHEMIE AKTIENGESELLSCHAFT
SWI	CIBA GEIGY A G
SWI	LABORATOIRES OM S.A.
SWI	CIBA GEIGY AG COLFA S A
SWI	SANDOZ S A
SWI	SEPERIC S A
SWI	LABORATOIRE ACBEL
SWI	LABORATOIRES OM S.A.
SWI	F HOFFMANN LA ROCHE & CIE
UK	IMPERIAL CHEMICAL INDUSTRIES
UK	BEECHAM GROUP LTD.
UK	NATL.RESEARCH & DEVELOPMENT CO.
UK	ASPRO NICHOLAS LTD
UK	MACLEANS LIMITED
UK	THE WELCOME FOUNDATION LTD
UK	THE NATIONAL RESEARCH DEV.CO
UK	LEYCOL CHEMICAL INVESTMENTS LT
USA	MEAD JOHNSON &
USA	MILES LABORATORIES INC
USA	AMERICAN HOME PRODUCTS CORP.
USA	HERHELL INC
USA	CUTTER LABORATORIES
USA	AMERICAN CYANAMID COMPANY
USA	ALCON UNIVERSAL LTD
USA	CYANAMID
USA	PFIZER INC.
USA	THE UPJOHN CO
USA	UP JOHN COMPANY
USA	SQUIBB AND SONS
USA	WILLIAM H.ROHRER INC.
USA	SMITH KLINE AND FRENCH
USA	AMERICAN HOME PRODUCTS CORP.
USA	BRISTOL-MEYERS CO.
USA	BRISTOL-MEYERS CO.
USA	THE UPJOHN COMPANY
USA	E R SQUIBB & SONS INC
USA	SMITH KLINE FRENCH OVERSEAS

**FOR MANUFACTURE OF DRUGS AND MEDICINE
SUPPLIER ADDRESS**

PAGE

GRENZACHERSTR.124	4002 BASEL		541.	SPA
SUIZA			541.	SPA
			541.1	VEN
			541.1	VEN
26 RVD PEROLLES	FREIBURG		541.1	ARG
			541.3	MEX
SAINT GALLEN			541.51	ROK
GRENZACHERSTRASSE	124,4002 BASEL		541.61	APG
LICHTSTHASSE 35	BASEL		541.7	ALG
			541.7	ALG
			541.7	PUN
			541.7	PUN
			541.7	PUR
BASIL			541.71	SPA
22 RUE DU BOIS DU LAN	1217 GENEVA		541.71	ARG
BASILEA			541.72	AHG
CH 4002 BASILEA			541.79	ARG
MOHAT	CANTON DE FRIBOURG		541.79	AHG
20 RUE DE LA COUDUVRENIERE GENEVA			541.79	AHG
1217 MEYRIN 2 GENEVE			541.91	ARG
GRENZACHERSTRASSE	124 BASEL		541.99	AHG
	CLESFIELD CHESHIRE		541.	HOK
KINGSGATE HOUSE 66/74 VICTORIA ST. LONDON			541.31	HOK
225 BATH ROAD, SLOUGH BERKS			541.64	CUL
			541.7	ALG
			541.7	SPA
			541.7	SPA
			541.7	SPA
P.O.BOX 75 NORMANDY HOUSE ST. HELIER, JERSEY			541.79	AHG
EVANSVILLE INDIANA 47721			51.	ARG
P O BOX 40 1127	NYHTLE ST ELKHART, IN		516.91	ARG
			541.	HOK
			541.	SPA
4TH AND PARKER STS.	BERKELEY, CALIF.		541.	RUK
BERDAN AVE	WAYNE, NJ 07470		541.	AHG
PO BOX 1751	PORT WORTH, TX 76101		541.	ARG
			541.	SPA
11 BARTLETT STREET	BROOKLYN, NY		541.31	AHG
PORTAGE ROAD 7000	KALAMAZOO MICHIGAN		541.31	AHG
			541.32	HOK
			541.4	HOK
			541.7	SPA
1500 SPRING GARDEN	PHILADELPHIA, PA 19101		541.7	HOK
			541.7	PUR
			541.7	HOK
			541.7	HOK
			541.7	SPA
P O BOX 4000	PRINCETON NEW JERSEY		541.7	AHG
1500 SPRING GARDEN ST PHILADELPHIA PENN.			541.71	CUL

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SUP CNTY	TECHNOLOGY SUPPLIER FOR MANUFACTURE OF DRUGS AND MEDICINE SUPPLIER NAME	SUPPLIER ADDRESS	PRODUCT#	CNTY
USA	AMERICAN HOME PRODUCTS CORP.	685 THIRD AVENUE NEW YORK,N.Y.10017	541.71	LUL/
USA	AMERICAN CYANAMID COMPANY	BERDEN AV. 7470 WAYNE NEW JERSEY	541.71	ARG
USA	BLECHAM INC	65 INDUSTRIAL SOUTH CLIFTON N JERSEY	541.71	AHO
USA	RIKER LABORATORIES INC	NORTHRIDGE,CA	541.71	ANG
USA	THE DOW CHEMICAL COMPANY	MIDLAND MICHIGAN 48640	541.71	AHO
USA	AMERICAN CYANAMID COMPANY	BERDEN AVENUE 07470 WAYNE NEW JERSEY	541.71	ANG
USA	USV PHARMACEUTICAL CORP.	1 SCARSDALE ROAD TUCKAHOE NEW YORK	541.71	ANG
USA	BRISTOL MYERS COMPANY	2000 GALLUPING HILL RD.KENILWORTH, NJ	541.71	ANG
USA	WHITE LABORATORIES INC.	1 SCARSDALE RD TUCKAHOE,NY 10707	541.71	ANG
USA	SCHIERING-PLUGH CORP.	90 PARK AVENUE NEW YORK,NY	541.71	ANG
USA	USV PHARMACEUTICAL CORP.	SUITE 713 15910 VENTURA ENCINO,CA	541.79	ANG
USA	WINTRUP PRODUCTS INC	NORTH CHICAGO,IL.	541.79	ANG
USA	MEDICINAL DISTRIBUTORS INTL	MIDLAND,MICHIGAN	541.9	PUR
USA	ABBOTT INTERNATIONAL LTD	245 EAST MARIE AVE. WEST ST.PAUL,MN	541.99	CUL/
USA	SMITH,KLINE & FRENCH INTL-CO.	685 THIRD AVENUE NEW YORK,NY	541.99	CUL/
JSA	THE DOW CHEMICAL COMPANY	MARLBOROUGH ROAD GLASTONBURY,CT	541.99	ANG
USA	SINCLAIR & VALENTINE CO. INC.	1845 OAK STREET NORTHFIELD,ILL	541.99	ANG
USA	AMERICAN HOME PRODUCTS CORP.	BERDEN AV 07470 NEW JERSEY	541.99	AHO
USA	ARDOR ACRES FARM INC	1590 MONROVIA BLVD CA	541.99	ANG
USA	SLAUGHTER SCHAFER & ASSOC.	685 THIRD AVENUE NEW YORK,NY	553.0	CUL/
USA	ARCOR S.A.MILAR S.A.	235 EAST 42ND ST NEW YORK,NY	553.0	CUL/
USA	AMERICAN CYANAMID CO	300 PARK AV-NEW YORK	553.0	ANG
USA	NEWPORT PHARMACEUTICALS INTL		553.00A	ANG
USA	J. GEORGE FIEDLER		582.21	ARG
USA	AMERICAN HOME PRODUCTS CORP.		598.99	MEX
USA	AMERICAN HOME PRODUCTS CORP.		598.99	MEX
USA	PFIZER CORP		931.0	SPA
USA	H.RUBINSTEIN INC.		541.7	SPA
USA	AMERICAN CYANAMID CO			
USA	SPC INTL. INC			
USA	VALMONT INC			
USA	RICHARDSON MERREL INC			
USR	V/O LICENSINTOG			



UNIDO

ANNEX II

TIES CODING FORM

0 0 0 1

ID KEY

RECIPIENT

R O K
COUNTRY CODE3 5 2 2
INDUSTRIAL CODE FOREIGN HOLDING RECIPIENT TYPE

SUPPLIER

P P T 0 0 1 4
SUPPLIER COMPANY CODEP A N
SUPPLIER COUNTRY CODE

CONTRACT

CURRENCY CODE6 2 0 6
CONTRACT DATE9 9
CONTRACT DURATION TYPE2 5 4 1 6
PRODUCT CODE 11 1 1 1
PRODUCT CODE 2

CONTRACT

EXCHANGE RATE
CURRENCY MULTIPLIER
PRODUCTION MULTIPLIER
PRODUCTION UNITS

TERMS

2
ROYALTY TYPE3 . 0
ROYALTY %A0 .
ROYALTY %B0 .
ROYALTY B LEVEL0 .
LUMP SUM PAYMENT0 .
MINIMUM ROYALTY FEE

PRODUCTION

ANNUAL SALES
ANNUAL PRODUCTION VOLUME
ANNUAL PRODUCTION CAPACITY

RECIPIENT COMPANY

CENTRAL PHARMACE

UTICALCO

RECIPIENT NAME LINE 1

RECIPIENT NAME LINE 2

ADDRESS LINE 1
ADDRESS LINE 2

SUPPLIER COMPANY

P F I Z E R C O .

SUPPLIER NAME LINE 2

2 3 5 E A S T 4 2 N D S T .

ADDRESS LINE 1

ADDRESS LINE 2

COMMENTS

R O Y A L T Y P A I D F O R 3 Y E A R S . J O I N

COMMENTS LINE 1

T V E N T U R E . P R O D U C T : T . A . O . , I .

COMMENTS LINE 2

V . G E O P E N O R A L , T I B R I C A C I D , G

COMMENTS LINE 3

E O P E N I . V . M I N I P R E S S , T I N I D A Z O L

COMMENTS LINE 4

E - N Y S T A T I N , T A L A M O L O L , P I R E X X Y .

COMMENTS LINE 5



