

IMPERIAL CHEMICAL INDUSTRIES LIMITED  
PLASTICS DIVISION

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LIVER Angiosarcoma Cases - (Review Date) 6 February 1981)

| 1                              | 2                   | 3                | 4             | 5       | 6                    | 7                    | 8                   | 9                                    | 10                   | 11               | 12                           | 13                             | 14                | 15                            | 16                                                                                                                                                                                                 |
|--------------------------------|---------------------|------------------|---------------|---------|----------------------|----------------------|---------------------|--------------------------------------|----------------------|------------------|------------------------------|--------------------------------|-------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COUNTRY AND<br>REFERENCE<br>NO | NAME OR<br>INITIALS | DATE OF<br>BIRTH | COMPANY       | FACTORY | FIRST VC<br>EXPOSURE | DATE OF<br>DIAGNOSIS | AGE AT<br>DIAGNOSIS | YEARS OF<br>EXPOSURE TO<br>DIAGNOSIS | YEARS OF<br>EXPOSURE | DATE OF<br>DEATH | HISTOLOGICAL<br>CONFIRMATION | ESTIMATED<br>EXPOSURE<br>LEVEL | OCCUPATION        | OTHER<br>CAREER<br>HIGHLIGHTS | OTHER<br>COMMENT                                                                                                                                                                                   |
| YUGOSLAVIA                     |                     |                  |               |         |                      |                      |                     |                                      |                      |                  |                              |                                |                   |                               |                                                                                                                                                                                                    |
| 01                             |                     | 05.04.14         | Jugo<br>Vinil | Split   | 00.00.53             | 08.04.73             | 59                  | 20                                   | 20                   | 08.04.73         | Yes                          |                                |                   |                               | SARTIC et al<br>paper<br>Env Health<br>Perspective<br>Vol 17,<br>pp 189-192<br>1976                                                                                                                |
| 02                             |                     | 15.11.31         | Jugo<br>Vinil | Split   | 00.00.50             | 12.07.73             | 42                  | 23                                   | 18                   | 12.07.73         | Yes <sup>A</sup>             |                                | VCH<br>Production |                               | In his let<br>of 3 Oct 73<br>Dr Spirtas<br>NIOSH changed<br>the status<br>Case 02 to<br>production<br>employee.<br>Dr Spirtas<br>also notified<br>a new Case<br>also a VCH<br>production<br>worker |
| 03                             |                     | 21.12.31         | Jugo<br>Vinil | Split   | 04.06.54             | 11.01.76             | 45                  | 22                                   | 22                   | 11.01.76         | Yes <sup>A</sup>             |                                | VCH<br>Production |                               |                                                                                                                                                                                                    |
| 04                             |                     | 11.06.30         |               |         | 15.12.58             | 03.09.78             | 48                  | 20                                   | 18                   | 03.09.78         | Yes                          |                                |                   |                               | Rose Kamin<br>Letter of<br>19th June                                                                                                                                                               |

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Incidence of ASL Cases Per Annum

|       | <u>By date of death</u> |
|-------|-------------------------|
| 1955  | 1                       |
| 6     | 0                       |
| 7     | 1                       |
| 8     | 0                       |
| 9     | 0                       |
| 1960  | 0                       |
| 1     | 1                       |
| 2     | 1                       |
| 3     | 0                       |
| 4     | 1                       |
| 5     | 0                       |
| 6     | 1                       |
| 7     | 1                       |
| 8     | 5                       |
| 9     | 3                       |
| 1970  | 2                       |
| 1     | 3                       |
| 2     | 5                       |
| 3     | 7                       |
| 4     | 6                       |
| 5     | 11                      |
| 6     | 11                      |
| 7     | 9                       |
| 8     | 10                      |
| 9     | 4                       |
| 1980  | 45                      |
| Total | 87 88                   |

N.B. 1 Does not include Italian 01 but does include German 03.

2 Does not include Japanese suspect cases. Since post mortem examinations are rare events in Japan, confirmation of ASL is a problem as indeed is its discovery,

3 The 1977 total includes US case 24 which is a Cholangiosarcoma,

TABLE 6

## ASL CASE NUMBERS BY YEAR OF DEATH AND GEOGRAPHICAL LOCATIONS (EXCLUDING ITO1)

|          |       | WESTERN EUROPE        | NORTH AMERICA      | REST OF WORLD |
|----------|-------|-----------------------|--------------------|---------------|
|          | 1955  |                       | C1                 |               |
|          | 6     |                       |                    |               |
|          | 7     |                       | C2                 |               |
|          | 8     |                       |                    |               |
|          | 9     |                       |                    |               |
|          | 1960  |                       |                    |               |
|          | 1     |                       | US8                |               |
|          | 2     |                       | C3                 |               |
|          | 3     |                       |                    |               |
|          | 4     |                       | US5                |               |
|          | 5     |                       |                    |               |
|          | 6     |                       |                    | Cz2           |
|          | 7     | F1                    |                    |               |
|          | 8     |                       | C4,C5,US4,US7,US10 |               |
|          | 9     | G1                    | US12,US16          |               |
| Viola    | 1970  | Sw1                   | US11               |               |
|          | 1     | G2                    | C6,US2             |               |
|          | 2     | N1,Sw2,UK1,It2        | C7                 |               |
| Maltoni  | 3     | G3**                  | C8,US1,US3,US23    | Y1,Y2         |
| Goodrich | 4     | G4,G5,UK3             | C9,US13            | Cz1           |
|          | 5     | F2,F3,G6,G7,G8,It3    | US6,US9,US18,US26  | Jap1          |
|          | 6     | B1,F4,F5,F6,F7,Sw3    | US19,US20,US22,    | Jap2,Y3       |
|          | 7     | F8,F9,G10,G11,G12,Sw4 | C10,US21,US24*     |               |
|          | 8     | F10,F11,G9,G13,G15    | US27,US28          | Y4            |
|          |       | G16,G17               |                    |               |
|          | 9     | F12,F13,UK4,UK5       |                    |               |
|          | 1980  | UK6, UK7              | US17, US29         |               |
|          | Total | 43                    | 36                 | 8             |

\* Cholangiosarcoma

\*\* Aerosol Can Filler

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TABLE 7

ASL CASE NUMBERS BY YEAR OF FIRST EXPOSURE AND GEOGRAPHICAL LOCATION  
(EXCLUDING ITO1)

|         |       | WESTERN EUROPE | NORTH AMERICA       | REST OF WORLD |
|---------|-------|----------------|---------------------|---------------|
|         | 1939  |                | US24*               |               |
|         | 40    |                |                     |               |
|         | 1     | Fr11           | C3,US27             |               |
|         | 2     |                | US13, US29          |               |
|         | 3     |                | C2,US19             |               |
|         | 4     | UK1            | C1,C5,US5,US7,US28  |               |
|         | 5     | Sw2            | C4,US3,US9          |               |
|         | 6     | Fr1,Fr3,Sw4    | C7,C9,US8,US11,US21 |               |
|         | 7     | Sw3            | C6,US22,US26        |               |
|         | 8     | Fr9            | US1                 |               |
|         | 9     | Fr12,Fr4       | US12                |               |
|         | 50    | Fr7,N1         | US16                | Y2            |
|         | 1     | Sw1,UK5        | US10                | Cz2           |
|         | 2     | G3**           | US4                 |               |
|         | 3     | G15,It3        | C10                 | Jap1,Y1       |
|         | 4     | G7,G8,UK4      | US18                | Y3            |
|         | 5     | G11,G16        | US2,US17,US20       |               |
|         | 6     | FR10,G1        |                     |               |
|         | 7     | Fr8,G4,It2,G2  |                     | Cz1           |
|         | 8     | Fr6,B1         | US23                | Jap2,Y4       |
|         | 9     | Fr2            |                     |               |
|         | 60    | G5,G13         |                     |               |
|         | 1     | G9,G10,G12,G17 | C8                  |               |
|         | 2     | G6,UK6         | US6                 |               |
|         | 3     | Fr13, UK7      |                     |               |
|         | 4     |                |                     |               |
|         | 5     | Fr5            |                     |               |
|         | 6     | UK3            |                     |               |
|         | 7     |                |                     |               |
|         | 8     |                |                     |               |
|         | 9     |                |                     |               |
| Viola   | 70    |                |                     |               |
|         | 1     |                |                     |               |
|         | 2     |                |                     |               |
| Maltoni | 3     |                |                     |               |
|         | Total | 43             | 36                  | 8             |

\* Cholangiosarcoma

\*\* Aerosol Can Filler

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WESTERN EUROPE PVC PRODUCERS - START-UP DATES vs ASL CASES (OMITTING G03)

| START-UP<br>YEAR | COUNTRY NAME   | COMPANY NAME    | LOCATION            | ASL CASE<br>NUMBER    | YEAR OF<br>1st Exposure |
|------------------|----------------|-----------------|---------------------|-----------------------|-------------------------|
| 1940             | United Kingdom | ICI             | Hillhouse           | 01,04                 | 44,54                   |
| 1941             | France         | Rhone-Poulenc   | St Fons             | 03,09,10,11           | 46,48,56,41             |
| 1944             | West Germany   | BASF            | Ludwigshafen        |                       |                         |
|                  | West Germany   | Wacker          | Burghausen          | 04,07,11,15           | 57,54,55,53             |
| 1945             | Sweden         | Kemanord        | Sundsvall(Stockvik) | 01,02,03,04           | 51,45,47,46             |
|                  | Switzerland    | Lonza           | Lalden (Visp)       |                       |                         |
| 1946             | France         | Rhone-Poulenc   | Rousillon           | 01                    | 46                      |
| 1947             | Italy          | Montedison      | Porto Marghera      | 02                    | 57                      |
| 1948             | United Kingdom | BP Chem         | Barry               | 03,05,06,07           | 66,51,62,63             |
|                  | West Germany   | Huls            | Marl                | 09,10                 | 61,61                   |
| 1949             | Belgium        | Solvic          | Jemeppe             | 01                    | 58                      |
| 1950             | France         | Puk             | Brignoud            | 02,04,05,06,12        | 59,49,65,58,49          |
|                  | France         | Rhone-Poulenc   | St Auban            | 07                    | 50                      |
|                  | Holland        | Shell           | Pernis              |                       |                         |
|                  | Norway         | Norsk           | Heroya              | 01                    | 50                      |
| 1951             | Italy          | Montedison      | Brindisi            |                       |                         |
| 1952             | Italy          | Montedison      | Terni               |                       |                         |
| 1953             | Austria        | Halvic          | Hallein             |                       |                         |
|                  | France         | Solvic          | Tavaux              | 08,13                 | 57,63                   |
|                  | Italy          | Solvic          | Ferrara             | 03                    | 53                      |
|                  | Spain          | Rio Rodano      | Hernani             |                       |                         |
|                  | United Kingdom | BIP             | Aycliffe            |                       |                         |
|                  | West Germany   | Hoechst         | Gendorf             |                       |                         |
| 1954             | West Germany   | Dynamit         | Troisdorf           | 01,02,08,12,16,<br>17 | 56,57,54,61,55,<br>61   |
| 1955             | Spain          | Monsanto Iberia | Monzon              |                       |                         |
| 1956             | Spain          | Caixa           | Sabinanigo          |                       |                         |
|                  |                | Hispavic        | Torrelavega         |                       |                         |
| 1958             | West Germany   | Solvay          | Rheinberg           |                       |                         |
| 1960             | Italy          | S C Ravenna     | Ravenna             |                       |                         |
| 1962             | Portugal       | Cires           | Oporto              |                       |                         |
|                  | West Germany   | Lonza           | Waldshut            | 06,13                 | 62,60                   |
| 1965             | France         | Rhone-Poulenc   | Montlucon           |                       |                         |
|                  | Italy          | Pozzi           | Ferrandina          |                       |                         |
|                  | West Germany   | Wacker          | Cologne             |                       |                         |
| 1966             | West Germany   | Hoechst         | Knapsack(Frankfurt) | 05*                   | 60                      |
| 1967             | France         | ATO Chimie      | Balan               |                       |                         |
|                  | Spain          | Rio Rodano      | Miranda de Ebro     |                       |                         |
|                  | Greece         | Esso Pappas     | Diavata Salonika    |                       |                         |
| 1968             | Belgium        | Badiphil        | Antwerp             |                       |                         |
| 1969             | United Kingdom | Vinatex         | Staveley            |                       |                         |
|                  | Italy          | Rumianca        | Cagliari Sardina    |                       |                         |
| 1970             | Italy          | SIR             | Porto Torres Sar    |                       |                         |
|                  | United Kingdom | ICI             | Runcorn             |                       |                         |
| 1971             | Italy          | S C Ravenna     | Ravenna             |                       |                         |
|                  | Spain          | Hispavic        | Martorell           |                       |                         |
|                  | Sweden         | Kemanord        | Stenungsund         |                       |                         |
|                  | United Kingdom | BP Chem         | Baglan Bay          |                       |                         |
| 1972             | Finland        | Pekema          | Svartback           |                       |                         |
|                  | Holland        | DSM             | Beek Limburg        |                       |                         |
| 1976             | France         | Soc Art D'vinyl | Mazingarbe          |                       |                         |
| 1977             | Spain          | Monsanto Iberia | Tarragona           |                       |                         |

\* Laboratory worker in Research Department

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USA PVC PRODUCERS - START-UP DATES vs ASL CASES

| START-UP<br>YEAR | COMPANY NAME               | LOCATION         | ASL CASE<br>NUMBER                       | YEAR OF<br>1st EXPOSURE                  |
|------------------|----------------------------|------------------|------------------------------------------|------------------------------------------|
| 1939?            | *UCC                       | S Charleston     | 07,13,19,21,24,<br>27, 28, 29            | 44, 42, 43, 46,<br>39, 41, 44, 42        |
| 1940?            | *BFG                       | Louisville       | 01,02,03,04,05,<br>06,09,16,17,22,<br>26 | 48,55,45,52,44,<br>62,45,50,55,47,<br>47 |
| 1946?            | *UCC                       | Texas City       |                                          |                                          |
| 1947             | Goodyear                   | Niagara Falls    | 08,10,11,20                              | 46,51,46,55                              |
| 1948             | Firestone                  | Pottstown        | 12                                       | 49                                       |
|                  | Uniroyal                   | Painesville      |                                          |                                          |
| 1950             | Monsanto                   | Springfield      |                                          |                                          |
| 1952             | Dow                        | Midland          |                                          |                                          |
|                  | BFG                        | Avon Lake        | 18                                       | 54-                                      |
| 1953             | Diamond                    | Deer Park        |                                          |                                          |
| 1954             | General Tire               | Ashtabula        |                                          |                                          |
| 1956             | Air Products               | Pensacola        |                                          |                                          |
|                  | Atlantic Refining          | Brooklyn         |                                          |                                          |
|                  | Borden                     | Leominster       |                                          |                                          |
|                  | Conoco                     | Hebronville      |                                          |                                          |
|                  | BFG                        | Niagara          |                                          |                                          |
|                  | Great American<br>Plastics | Fritchburg       | 23                                       | 58                                       |
|                  | Hooker                     | Hicksville       |                                          |                                          |
|                  | Pantasote                  | Passaic          |                                          |                                          |
| 1957             | Atlantic Tubing            | Cranston         |                                          |                                          |
|                  | Tenneco                    | Flemington NJ    |                                          |                                          |
| 1958             | Keysor Century             | Saugus, Cal      |                                          |                                          |
| 1960             | BFG                        | Watson, Cal      |                                          |                                          |
|                  | Air Products               | Calvert City     |                                          |                                          |
|                  | Borden                     | Illioopolis      |                                          |                                          |
| 1962             | Tenneco                    | Flemington NJ    |                                          |                                          |
| 1963             | Conoco                     | Aberdeen, Miss   |                                          |                                          |
|                  | Stauffer                   | Long Beach, Cal  |                                          |                                          |
| 1965             | Conoco                     | Assonet, Mass    |                                          |                                          |
|                  | Ethyl                      | Baton Rouge      |                                          |                                          |
| 1966             | Diamond                    | Delaware City    |                                          |                                          |
|                  | General Tire/Pantas        | Mt Pleasant W Va |                                          |                                          |
|                  | BFG                        | Henry, Ill       |                                          |                                          |
|                  | Stauffer                   | Delaware City    |                                          |                                          |
| 1967             | Allied                     | Painesville, O   |                                          |                                          |
|                  | Hooker                     | Burlington NJ    |                                          |                                          |
| 1968             | Firestone                  | Perryville       |                                          |                                          |
| 1969             | BFG                        | Pedrickton NJ    |                                          |                                          |
|                  | Goodyear                   | Plaquemine       |                                          |                                          |
|                  | Olin                       | Assonet, Mass    |                                          |                                          |
| 1971             | Conoco                     | Oklahoma City    |                                          |                                          |
| 1972             | Nat Starch                 | Meredosia, Ill   |                                          |                                          |
| 1973             | Borden                     | Springfield      |                                          |                                          |
|                  | Robintech                  | Painesville, O   |                                          |                                          |
| 1974             | Atlantic Tubing            | Cranston RI      |                                          |                                          |
|                  | Shintech                   | Freeport, Tex    |                                          |                                          |
| 1975             | Certain-teed               | Lake Charles     |                                          |                                          |
|                  | Georgia Pacific            | Plaquemine, La   |                                          |                                          |
|                  | Tenneco                    | Pasadena, Tex    |                                          |                                          |

\* My databank has no information on UCC before 1946 or BFG before 1950.

NB Some of the plants in this list were closed down some have changed ownership over the years.

TABLE 10

CANADIAN PVC PRODUCERS - START-UP DATES vs ASL CASES

| START-UP<br>YEAR | COMPANY NAME | LOCATION   | ASL CASE<br>NUMBER               | YEAR OF<br>1st EXPOSURE           |
|------------------|--------------|------------|----------------------------------|-----------------------------------|
| 1943<br>(1941?)  | Goodrich     | Shawinigan | 01,02,03,04,05<br>06,07,08,09,10 | 44,43,41,45,44,<br>47,46,61,46,53 |
| 1951             | Monsanto*    | La. Salle  |                                  |                                   |
| 1957             | Goodrich     | Welland    |                                  |                                   |
| 1966             | Esso         | Sarnia     |                                  |                                   |

\* Terminated 1975

TABLE 11

EASTERN BLOC PVC FACTORIES - START-UP DATES vs ASL CASES

| START-UP<br>YEAR | COUNTRY NAME   | COMPANY NAME  | LOCATION                | ASL CASE<br>NUMBER | YEAR OF<br>1st Exposure |
|------------------|----------------|---------------|-------------------------|--------------------|-------------------------|
| 1941             | Russia         | State Comps   | Vladimir et al          |                    |                         |
| 1950             | Yugoslavia     | Jugo Vinil    | Split                   | 01,02,03,04        | 53,50,54,48             |
| 1951             | Czechoslovakia | State Comps   | Novaky                  | 01,02              | 57,51                   |
| 1955             | East Germany   | State Comps   | Bitterfeldt<br>Schkopau |                    |                         |
| 1956             | Rumania        | State Comps   | Icechim                 |                    |                         |
| 1957             | Poland         | State Comps   | Osweicim (Dwory)        |                    |                         |
|                  | Rumania        | State Comps   | Tirnaveni<br>Turda      |                    |                         |
| 1958             | Rumania        | State Comps   | Risnov                  |                    |                         |
| 1959             | Hungary        | State Comps   | Berente Borsod          |                    |                         |
| 1961             | Rumania        | State Comps   | Borzesti                |                    |                         |
| 1963             | Yugoslavia     | Ohis          | Skopje                  |                    |                         |
| 1965             | Bulgaria       | State Comps   | Varna                   |                    |                         |
| 1967             | Poland         | State Comps   | Tarnow                  |                    |                         |
| 1969             | Russia         | State Comps   | Djerjinsk               |                    |                         |
| 1970             | Rumania        | State Comps   | Rimnicu Vilcea          |                    |                         |
|                  | Russia         | State Comps   | Volgograd               |                    |                         |
| 1972             | Yugoslavia     | Vinilplastika | Zadar                   |                    |                         |
| 1975             | Czechoslovakia | State Comps   | Neratovice              |                    |                         |
|                  | Russia         | State Comps   | Kalush Area             |                    |                         |
| 1976             | Yugoslavia     | Hip           | Pancevo                 |                    |                         |
| 1977             | Rumania        | State Comps.  | Rimnicu Vilcea          |                    |                         |

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TABLE 12

## JAPANESE PVC PRODUCERS - START-UP DATES vs ASL CASES

| START-UP<br>YEAR | COMPANY NAME    | LOCATION    | ASL CASE<br>NUMBER | YEAR OF<br>1st EXPOSURE |
|------------------|-----------------|-------------|--------------------|-------------------------|
| 1950             | Chisso Corp     | Minamata    |                    |                         |
|                  | Kanegafuchi Kag | Osaka       |                    |                         |
|                  | Tekkosha        | Sakata      |                    |                         |
| 1951             | Mitsui Toatsu   | Nagoya      | 01, 02             | 53, 58                  |
| 1952             | Mitsubishi Mon  | Yokkaichi   |                    |                         |
|                  | Sumitomo Kag    | Kikumoto    |                    |                         |
| 1951             | Denki Kagaku    | Shibukawa   |                    |                         |
|                  | Nippon Zeon     | Kambara     |                    |                         |
|                  | Toa Gosei       | Tekushima   |                    |                         |
| 1955             | Ryo-Nichi       | Uozu        |                    |                         |
| 1956             | Nippon Zeon     | Takoaka     |                    |                         |
|                  | Nisshin Kagaku  | Takeo       |                    |                         |
| 1957             | Kureha Kasei    | Nishiki     |                    |                         |
|                  | Shinetsu Kag    | Naoetsu     |                    |                         |
| 1960             | Denki Kagaku    | Ohmi        |                    |                         |
|                  | Kanegafuchi Kag | Takasago    |                    |                         |
| 1964             | Chisso Corp     | Chiba       |                    |                         |
| 1966             | Tokuyama Sekui  | Tokuyama    |                    |                         |
| 1967             | San Arrow Kagak | Tokuyama    |                    |                         |
|                  | Sumitomo Kag    | Chiba       |                    |                         |
| 1968             | Ryo-Nichi       | Mizushima   |                    |                         |
|                  | Shinetsu Kag    | Tokuyama    |                    |                         |
| 1970             | Chisso Corp     | Mizushima   |                    |                         |
|                  | Denki Kagaku    | Goi (Chiba) |                    |                         |
|                  | Kanegafuchi Kag | Kashima     |                    |                         |
|                  | Kawasaki Yuki   | Kawasaki    |                    |                         |
|                  | Mitsui Toatsu   | Sakai       |                    |                         |
|                  | Nissan Kagaku   | Chiba       |                    |                         |
|                  | Shinetsu Kag    | Kashima     |                    |                         |
| 1971             | Tekkosha        | Yokkaichi   |                    |                         |
| 1973             | Asahi Glass     | Hayatsuki   |                    |                         |
| 1974             | Toyo Soda       | Sakata      |                    |                         |
|                  |                 | Yokkaishi   |                    |                         |
| 1975             | Central Kagaku  | Kawasaki    |                    |                         |
|                  | Toyo Soda       | Yokkaichi   |                    |                         |
| 1977             | Unknown         | Kashima     |                    |                         |

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TABLE 5

Annual Incidence of ASL Cases (Date of Death) by Geographical Area

|      | Western Europe | North America    | Rest of World | Annual Total     |
|------|----------------|------------------|---------------|------------------|
| 1955 |                | 1                |               | 1                |
| 7    |                | 1                |               | 1                |
| 1961 |                | 1                |               | 1                |
| 2    |                | 1                |               | 1                |
| 4    |                | 1                |               | 1                |
| 6    |                |                  | 1             | 1                |
| 7    | 1              |                  |               | 1                |
| 8    |                | 5                |               | 5                |
| 9    | 1              | 2                |               | 3                |
| 1970 | 1              | 1                |               | 2                |
| 1    | 1              | 2                |               | 3                |
| 2    | 4              | 1                |               | 5                |
| 3    | 1              | 4                | 2             | 7                |
| 4    | 3              | 2                | 1             | 6                |
| 5    | 6              | 4                | 1             | 11               |
| 6    | 6              | 3                | 2             | 11               |
| 7    | 6              | 3                |               | 9                |
| 8    | 7              | 2                | 1             | 10               |
| 9    | 4              |                  |               | 4                |
| 1980 | 2              | <del>2</del> 3   |               | <del>4</del> 5   |
|      | 43*            | 36 <del>37</del> | 8             | <del>87</del> 88 |

\* Includes G03 aerosol can filler but omits It 01 bag extruder