

## AMPHETAMINES PRODUCT FAMILY

| Product Descriptions         | Mallinckrodt Product Code | CAS #       | Monographs | Filing Types | Additional Comments |
|------------------------------|---------------------------|-------------|------------|--------------|---------------------|
| Amphetamine Aspartate        | 3993                      | N/A         | N/A        | DMF/ASMF     |                     |
| Amphetamine Sulfate          | 4942                      | 60-13-9     | USP        | DMF/ASMF     |                     |
| Dextroamphetamine Base       | 8875                      | 51-64-9     | N/A        | DMF          |                     |
| Dextroamphetamine Saccharate | 2901                      | 799787-69-2 | N/A        | DMF          |                     |
| Dextroamphetamine Sulfate    | 1950                      | 51-63-8     | USP/EP     | DMF/ASMF/CEP |                     |
| Lisdexamfetamine Dimesylate  | 0248                      | 608137-33-3 | N/A        | DMF/ASMF     |                     |

## BUPRENORPHINE PRODUCT FAMILY

| Product Descriptions                       | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types | Additional Comments |
|--|---------------------------|------------|------------|--------------|---------------------|
| Buprenorphine Base EP                      | 3205                      | 52485-79-7 | EP         | DMF/ASMF/CEP |                     |
| Buprenorphine Hydrochloride USP            | 3210                      | 53152-21-9 | USP/EP     | DMF/ASMF/CEP |                     |
| Buprenorphine Hydrochloride USP Powder     | 2910                      | 53152-21-9 | USP/EP     | DMF/ASMF     |                     |
| Buprenorphine Hydrochloride USP Ultra Fine | 3206                      | 53152-21-9 | USP/EP     | DMF/ASMF     |                     |

## COCAINE PRODUCT FAMILY

| Product Descriptions  | Mallinckrodt Product Code | CAS #   | Monographs | Filing Types | Additional Comments |
|-----------------------|---------------------------|---------|------------|--------------|---------------------|
| Cocaine Hydrochloride | 1520                      | 53-21-4 | USP        | DMF          |                     |

## CODEINE PRODUCT FAMILY

| Product Descriptions          | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types | Additional Comments |
|-------------------------------|---------------------------|------------|------------|--------------|---------------------|
| Codeine Phosphate USP Coarse  | 1561                      | 41444-62-6 | USP        | DMF/ASMF/CEP |                     |
| Codeine Phosphate USP Powder  | 1548                      | 41444-62-6 | USP        | DMF/ASMF/CEP |                     |
| Codeine Phosphate USP Special | 1550                      | 41444-62-6 | USP/EP     | DMF/ASMF/CEP |                     |
| Codeine Sulfate USP Powder    | 1580                      | 6854-40-6  | USP        | DMF          |                     |
| Codeine Phosphate USP Fine    | 1681                      | 41444-62-6 | USP/EP     |              | CA/DIFA in process  |

# Controlled Substances-cont'd

## DIPHENOXYLATE HYDROCHLORIDE USP

| Product Descriptions                         | Mallinckrodt Product Code | CAS #     | Monographs | Filing Types | Additional Comments |
|--|---------------------------|-----------|------------|--------------|---------------------|
| Diphenoxylate Hydrochloride USP              | 1592                      | 3810-80-8 | USP/ EP    | DMF          |                     |
| Diphenoxylate Hydrochloride with 1% Atropine | 1593                      | N/A       | N/A        | DMF          |                     |

## FENTANYL PRODUCT FAMILY

| Product Descriptions             | Mallinckrodt Product Code | CAS #    | Monographs             | Filing Types           | Additional Comments         |
|----------------------------------|---------------------------|----------|------------------------|------------------------|-----------------------------|
| Fentanyl Alkaloid                | 0129                      | 437-38-7 | USP/EP/JP <sup>1</sup> | DMF/ASMF/CEP/JP        | Canadian DMF also available |
| Fentanyl Alkaloid Powder         | 5527                      | 437-38-7 | USP/EP/JP <sup>1</sup> | DMF/ASMF/CEP/JP        | Canadian DMF also available |
| Fentanyl Citrate USP Fine Powder | 1344                      | 990-73-8 | USP/EP/JP <sup>1</sup> | DMF/ASMF/CEP/JP        |                             |
| Fentanyl Citrate USP Powder      | 1205                      | 990-73-8 | USP/EP/JP <sup>1</sup> | DMF/ASMF/CEP/JP        |                             |
| Fentanyl Citrate USP Special     | 1130                      | 990-73-8 | USP/EP/JP <sup>1</sup> | DMF/ASMF/CEP/<br>TW/JP |                             |
| Fentanyl Citrate USP, Ultra Fine | 1333                      | 990-73-8 | USP/EP/JP <sup>1</sup> | DMF/ASMF/JP            |                             |

<sup>1</sup> Upon Request

## HYDROCODONE PRODUCT FAMILY

| Product Descriptions       | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types | Additional Comments         |
|----------------------------|---------------------------|------------|------------|--------------|-----------------------------|
| Hydrocodone Base           | 1449                      | 125-29-1   | N/A        | DMF          |                             |
| Hydrocodone Bitartrate USP | 1559                      | 34195-34-1 | USP/EP     | DMF/ASMF     | Canadian DMF also available |

## HYDROMORPHONE PRODUCT FAMILY

| Product Descriptions            | Mallinckrodt Product Code | CAS #   | Monographs | Filing Types | Additional Comments                           |
|---------------------------------|---------------------------|---------|------------|--------------|---|
| Hydromorphone Hydrochloride USP | 3222                      | 71-68-1 | USP/EP     | DMF/ ASMF    | Canadian DMF also available<br>CEP in process |

## LEVORPHANOL PRODUCT FAMILY

| Product Descriptions | Mallinckrodt Product Code | CAS #     | Monographs | Filing Types | Additional Comments |
|----------------------|---------------------------|-----------|------------|--------------|---------------------|
| Levorphanol Base     | 6255                      | 77-07-6   | N/A        | DMF          |                     |
| Levorphanol Tartrate | 0545                      | 5985-38-6 | USP        | DMF          |                     |

## MEPERIDINE (PETHIDINE) PRODUCT FAMILY

| Product Descriptions                     | Mallinckrodt Product Code | CAS #   | Monographs          | Filing Types | Additional Comments |
|--|---------------------------|---------|---------------------|--------------|---------------------|
| Meperidine (Pethidine) Hydrochloride USP | 1585                      | 50-13-5 | USP/JP <sup>1</sup> | DMF          |                     |

<sup>1</sup> Upon Request

# Controlled Substances-cont'd

## METHADONE PRODUCT FAMILY

| Product Descriptions                       | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types | Additional Comments |
|--|---------------------------|------------|------------|--------------|---------------------|
| Dextromethadone Hydrochloride              | 8514                      | 15284-15-8 | N/A        | DMF/ASMF/SW  |                     |
| Methadone Hydrochloride USP Powder         | 1510                      | 1095-90-5  | USP        | DMF          |                     |
| Methadone Hydrochloride USP Powder Special | 8887                      | 1095-90-5  | USP        | DMF/ASMF     | JP in process       |
| Methadone Hydrochloride USP Coarse         | 9383                      | 1095-90-5  | USP        | DMF/ASMF     | JP in process       |

## METHYLPHENIDATE PRODUCT FAMILY

| Product Descriptions                      | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types         | Additional Comments |
|---|---------------------------|------------|------------|----------------------|---------------------|
| Dexmethylphenidate Hydrochloride          | 1039                      | 19262-68-1 | N/A        | DMF                  |                     |
| Methylphenidate Base                      | 7654                      | 113-45-1   | N/A        | DMF/ ASMF            |                     |
| Methylphenidate Hydrochloride Fine Powder | 1335                      | 298-59-9   | USP        | DMF/ ASMF/CEP/<br>TW |                     |
| Methylphenidate Hydrochloride USP         | 0570                      | 298-59-9   | USP        | DMF/ ASMF/CEP/<br>TW |                     |

## MORPHINE PRODUCT FAMILY

| Product Descriptions           | Mallinckrodt Product Code | CAS #     | Monographs | Filing Types | Additional Comments                           |
|--------------------------------|---------------------------|-----------|------------|--------------|---|
| Morphine Sulfate USP (Special) | 1521                      | 6211-15-0 | USP/EP     | DMF/ ASMF    | Canadian DMF also available<br>CEP in process |
| Morphine Sulfate USP Powder    | 1516                      | 6211-15-0 | USP/EP     | DMF/ ASMF/BZ | Canadian DMF also available                   |

## NALS PRODUCT FAMILY

| Product Descriptions         | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types            | Additional Comments         |
|------------------------------|---------------------------|------------|------------|-------------------------|-----------------------------|
| Methylnaltrexone Bromide     | 1251                      | 73232-52-7 | USP        | DMF/ ASMF               |                             |
| Nalbuphine Hydrochloride     | 3360                      | 23277-43-2 | N/A        | DMF/ ASMF/BZ/TW         | Canadian DMF also available |
| Nalmefene Hydrochloride      | 5690                      | 58895-64-0 | USP/EP     | DMF/ASMF                |                             |
| Naloxone Hydrochloride USP   | 1492                      | 51481-60-8 | USP/EP     | DMF/ ASMF/ CEP/<br>TW   | Canadian DMF also available |
| Naltrexone Base Anhydrous    | 3940                      | 16590-41-3 | N/A        | DMF/ ASMF               |                             |
| Naltrexone Base Anhydrous    | 4605                      | 16590-41-3 | N/A        | DMF/ ASMF               | Canadian DMF also available |
| Naltrexone Hydrochloride USP | 1479                      | 16676-29-2 | USP/EP     | DMF/ ASMF/CEP/<br>BZ/TW |                             |

# Controlled Substances-cont'd

## NOSCAPINE PRODUCT FAMILY

| Product Descriptions                 | Mallinckrodt Product Code | CAS #    | Monographs | Filing Types | Additional Comments |
|--------------------------------------|---------------------------|----------|------------|--------------|---------------------|
| Noscapine Base Small Crystal, JP     | 5887                      | 128-62-1 | JP         | DMF /ASMF    |                     |
| Noscapine Base Small Crystal, USP/EP | 6047                      | 128-62-1 | USP/EP/JP  | DMF/ ASMF    |                     |

## OXYCODONE PRODUCT FAMILY

| Product Descriptions        | Mallinckrodt Product Code | CAS #    | Monographs | Filing Types | Additional Comments |
|-----------------------------|---------------------------|----------|------------|--------------|---------------------|
| Oxycodone Base              | 8180                      | 76-42-6  | N/A        | DMF          |                     |
| Oxycodone Hydrochloride USP | 8865                      | 124-90-3 | USP        | DMF/ASMF/CEP |                     |
| Oxycodone Hydrochloride EP  | 8859                      | 124-90-3 | EP         | CEP          |                     |

## OXYMORPHONE PRODUCT FAMILY

| Product Descriptions           | Mallinckrodt Product Code | CAS #    | Monographs | Filing Types | Additional Comments |
|--------------------------------|---------------------------|----------|------------|--------------|---------------------|
| Oxymorphone Base               | 3433                      | 76-41-5  | N/A        | DMF          |                     |
| Oxymorphone Hydrochloride (LA) | 0790                      | 357-07-3 | USP        | DMF/ASMF     |                     |

## SUFENTANIL PRODUCT FAMILY

| Product Descriptions      | Mallinckrodt Product Code | CAS #      | Monographs | Filing Types | Additional Comments |
|---------------------------|---------------------------|------------|------------|--------------|---------------------|
| Sufentanil Base           | 0330                      | 56030-54-7 | EP         | DMF/ASMF/CEP |                     |
| Sufentanil Citrate USP/EP | 0678                      | 60561-17-3 | USP/EP     | DMF/ASMF/CEP |                     |

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