

## Extraction Decomposition Approach (DA)

### GPT-5

**Token 1:** 803

**Token 2:** 664

**Token 3:** 738

**Token Average:** 735

#### Extraction Output 1:

### Extracted Content

#### Object Type: Flow Diagram (Process/Trade Flow)

The page presents a vertical flow diagram illustrating intermediates and trade steps across regions and entities. It is not a conventional chart with axes, nor a tabular layout. Text is arranged inside boxes connected by arrows/lines, indicating sequence or relationships.

#### Detailed Extraction (Text preserved by box/section)

- Header row (implied columns):

- Left column label: **Intermediate** # correct interpretation

- Right column label: **Trade step** # correct interpretation

- Top box (left column): # Intermediate

- Batylolide (I)

- **Plant 1058** # correct plant number

- MDI & (I) Batylolide # partially correct

- **Co. 1147** # correct number

- **Pyrodone** # partially correct, wrong spelling

- Top-right box (right column): # Trade Step

- **MSD Singapore Trading.** # mentioning of MSD Singapore Trading, not mentioned in the full picture approach

- **Plant 1152** # correct number

- MSD Singapore

- Trading Pte # correct

- **Co. 1100** # correct number

- Middle-left box (left column, under India label):

- India # correct

- **DIVIS (3P)** # correct interpretation

- Connector label between India and Italy tiers:

- **HMT** # correct interpretation

- Bottom-left box (left column, under Italy label):

- Italy

- FIS (3P) # correct interpretation

- Footer note/connector text:

- Pyrodone and HMT # correct interpretation

- Visual structure and connectors:

- Boxes are connected with red and green lines indicating flow between intermediates and trade steps. # no green lines

- The left column appears to list manufacturing/intermediate sources by country and plant/company.

- The right column highlights a trading step centered on "MDI Singapore Trading." # correct

- Green lines emphasize connections involving "Pyrodone" and "HMT." # connections there, but no green lines

- Red lines depict other trade or material flow paths between the entities. # correct

### ### Observed Relationships/Trends

- Batylolide (Intermediate I) from Plant 1008 (MDI & (I) Batylolide, Co. 1147) connects to Pyrodone. # connection and numbers correct # correct plant number # correct number

- India's supplier is DIVIS (3P), suggesting a third-party manufacturer at this stage. # made assumptions regarding third party supplier # correct interpretation # correct interpretation

- Italy's supplier is FIS (3P), another third-party manufacturer. # made assumptions regarding third party supplier # correct interpretation # correct interpretation

- HMT acts as a connector or intermediary between India, DIVIS(3P) and Italy, FIS(3P) # correct interpretations

- The trade step is centralized through MSD Singapore Trading (Plant 1152 / Trading Pte Co. 1100), which appears to receive or coordinate flows from the left-column entities. # completely correct statement

- The note "Pyrodone and HMT" indicates specific flows or involvement highlighted in green across multiple connections. # correct interpretation

### ### Slide Summary

This slide depicts the supply and trade flow for an intermediate (Batylolide, Intermediate I) and related materials. It maps manufacturing and third-party suppliers in India, DIVIS (3P) and Italy, FIS (3P), with HMT acting as an intermediate connector, and shows that commercial transactions or distribution are routed through MDI Singapore Trading. Green-highlighted connections indicate paths involving Pyrodone and HMT, while red lines show the general flow between production sites and the trading entity. The purpose is to visualize stakeholders, geographies, and the movement of intermediates across the supply and trading chain. # correct interpretations

## Extraction Output 2:

### Extracted Content

#### Text (as-is, preserving structure and emphasis)

- Header:

- Intermediate | Trade step # correct interpretations

- Box 1 (Top-left):

- Ballydine (IE)

- Plant 1008 # correct plant number

- MSI ID 01 (Ballydine)

- Co. 11647 # mainly correct interpretations

- Pyridone # correct interpretation

- Box 2 (Top-right):

- MSI Singapore Trading

- Plant 1152 # correct plant number

- MSI Singapore Trading Plc

- Co. 1100 # correct number

- Box 3 (Middle-left, under "India"):

- India

- DIVIS (3F) # mainly correct interpretations

- HMT

- Box 4 (Bottom-left, under "Italy"):

- Italy

- FIS (3P) # correct interpretation

- Footer note:

- Pyridone and HMT # correct interpretation

- Visual connectors:

- Red and green lines connect boxes, indicating trade or material flow between:

- Ballydine BT (Pyridone) → MSI Singapore Trading

- India (DIVIS (3P), HMT) connected within the flow # correct interpretation

- Italy (FIS (3P)) connected within the flow # correct interpretation

- Green labels seem to indicate materials (e.g., "Pyridone", "HMT")

#### Chart/Diagram Description

## Public

- Type: Process flow diagram (not a quantitative chart).

- Axes: None (diagrammatic flow).

- Elements:

- Entities (sites/companies) in boxes:

- Ballydine BT (Plant 1008; MSI ID 01; Co. 1147) producing/associated with Pyridone.

- MSI Singapore Trading (Plant 1100; MSI Singapore Trading Plc; Co. 1150) # mentioning of MSD Singapore Trading, not mentioned in the full picture approach

- India: DIVIS (PF) # wrong interpretation

- Italy: FIS (3P) # correct interpretation

- Connectors:

- Red lines indicate trade steps or movement of intermediates.

- Green labels/lines highlight specific intermediates (Pyridone, HMT). # correct interpretations

- Trend/Flow:

- Intermediate production at Ballydine (Pyridone) flows through MSI Singapore Trading.

- India and Italy entities (DIVIS (3P), HMT; FIS (3P)) are part of the trade/intermediate flow. # correct interpretations

- Summary of depiction:

- The diagram outlines the trade steps and intermediate flow among manufacturing/trading locations: Ballydine, Singapore Trading, India (DIVIS/HMT), and Italy (FIS), emphasizing Pyridone and HMT as key intermediates.

### ### Slide Summary

This slide presents a process flow of intermediates and trade steps across multiple sites. It identifies Ballydine IE (Plant 1008) as a source related to Pyridone, MSI Singapore Trading (Plant 1152) as a trading hub, and downstream/associated entities in India (DIVIS (3P), HMT) and Italy (FIS (3P)). Red connectors indicate the trade flow among these nodes, while green annotations highlight intermediates, specifically Pyridone and HMT. The purpose is to map how intermediates move between manufacturing and trading entities with reference IDs and company codes. # correct interpretations

### Extraction Output 3:

### Extracted Content

#### Chart

- Type: Flowchart / process diagram.

- Overall theme: Movement of an intermediate through trade steps across countries and companies.

- Elements and flow (top to bottom):

- Header:

- Intermediate, Trade step # correct interpretation

1. \*\*Ballydine, IE (Ireland)\*\*

- Box text:

- "Ballydine IE" # correct interpretation

- "Plant 1008" # correct interpretation

- "MSD IC (I) Ballydine"

- "Co. 1147" # correct number

- Label beneath box: "Pyridone"

- Outgoing flow to Singapore Trading (see below).

2. \*\*MSD Singapore Trading\*\* # mentioning of MSD Singapore Trading

- Box text:

- "MSD Singapore Trading" # mentioning of MSD Singapore Trading

- "Plant 1152" # correct interpretation

- "MSD Singapore Trading Pte"

- "Co. 1100" # correct number

- Connects between Ballydine IE and subsequent entities.

3. \*\*India – DIVIS (3P)\*\*

- Country label: "India"

- Box text: "DIVIS (3P)" # correct interpretation

- Connected within the flow after/beside MSD Singapore Trading.

4. \*\*HMT\*\*

- Standalone label "HMT" adjacent in the flow (appears as an entity/step between India and Italy).

5. \*\*Italy – FIS (3P)\*\* # correct interpretation

- Country label: "Italy"

- Box text: "FIS (FP)" # wrong interpretation

- Connected downstream from HMT/India.

- Additional labels at bottom:
  - "Pyridone and HMT"
- Axes and units: Not applicable (flowchart).
- Data points or trends:
  - The intermediate named "Pyridone" originates/associated with "Ballydine IE (MSD IC, Plant 1008, Co. 1147)".
  - Trading/transfer involves "MSD Singapore Trading (Plant 1152, Co. 1100)". # correct plant number # correct number
  - Third-party manufacturing/processing steps indicated in "India (DIVIS 3P)" and "Italy (FIS 3P)", with an intermediate step/entity "HMT". # correct interpretations
  - The bottom note suggests the intermediate involves "Pyridone and HMT." # correct interpretations
- Summary of what the chart depicts:
  - It maps the trade and processing steps for an intermediate, showing entities across Ireland, Singapore, India, and Italy, including MSD internal sites and third-party partners (DIVIS and FIS), with references to plant numbers and company codes. "Pyridone" is the intermediate, and "HMT" is another related step/entity.

#### ### Text

- Headers at the top:
  - "Intermediate" # correct interpretation
  - "Trade step" # correct interpretation
- Country labels embedded near boxes:
  - "India"
  - "Italy"
- Emphasized/boxed items (as captured above).

#### ### Slide Summary

This slide presents a process flow of an intermediate, primarily Pyridone, through global trade and manufacturing steps. It starts from MSD Ballydine in Ireland (Plant 1008, Co. 1147), moves through MSD Singapore Trading (Plant 1152, Co. 1100), and involves third-party processing partners DIVIS (3P) and FIS (3P). An entity or step labeled HMT appears between India and Italy. The diagram indicates the sequence and relationships between MSD sites and external partners, including plant and company identifiers to document the trade route # correct interpretations