

## Extraction Claude LLM

### Claude Sonnet 4.5

**Token 1:** 1369

**Token 2:** 1224

**Token 3:** 1273

**Token Average:** 1289

**Average correctly identified and named Main Steps:** 10.7

**Average correctly identified and named Sub Categories:** 7.3

### Extraction Output 1:

# Supply Chain Map Analysis

## Summary

This document presents a comprehensive supply chain map for a product (likely a pharmaceutical or chemical product based on the structure). The map traces the flow from raw material intermediates through various processing stages (trade-ops, chemical/API production, spray drying, formulation) to final packaging and distribution across multiple global markets. The map includes a legend indicating physical/financial supply chain flows and various location types, with a "DO NOT DISPLAY" watermark indicating proprietary information.

## Detailed Content Extraction

### Document Header

- \*\*Title\*\*: Supply Chain Map

- \*\*Status\*\*: Proprietary

- \*\*Legend Box\*\* (top right): Contains color-coded information for:

- \*\*LEGEND\*\*

- Stock Size categories (Physical Location, Physical Warehouse, Physical Toll Manufacturer)

- Various box types (Red Box, Blue Box, Green Box, etc.) representing different supply chain elements

- \*\*DO NOT DISPLAY\*\* watermark

### Supply Chain Flow Structure

The map is organized into the following stages (left to right):

#### # Main Steps

# 11 / 12 Main Steps identified (correct order)

# 10 / 12 Main Steps, correctly identified and named

#### \*\*Intermediate Stage\*\* # 1

- \*\*Substance #1\*\* (Plant Site)

- MFG ID #1/Substance

- Co. WBS

- Substance

- \*\*India\*\*

- MFG Substance Specific

- Plant Site

- CVAS (SP)

- \*\*Italy\*\*

- \*\*Italy\*\* (FG (SP))

- \*Substance prod (Italy)\*

## Public

### ##### \*\*Trade-rep Stage\*\* # 2

- \*\*MFG Substance Specific\*\* (Plant Site)
- \*\*MFG Substance Specific\*\* (Packaging Site)

### ##### \*\*Chemical (API) Stage\*\* # 3

- \*\*Substance #1\*\* (Plant Site)

- MFG ID #1/Substance

- Co. WBS

- Substance

- \*\*India\*\*

- MFG Substance Specific

- Plant Site

- CVAS (SP)

- \*\*India\*\*

- Labeling & Specification

- Batch (API)

- API Ingredients (SP)

- \*Labeling & Specification\*

### ##### \*\*Warehouse Stage\*\* # 4

- \*\*MFG ID #1/Substance\*\*
- \*\*MFG ID #1/Substance for Co.\*\*

### ##### \*\*Spray Drying Stage\*\* # 5

- \*\*Portugal (P)\*\* (Plant Site)

- Co. WBS

- Co. WBS

- \*\*Italy\*\* (Plant Site)

- \*\*MFG with Substance for Co. WBS\*\*

### ##### \*\*Formulation Stage\*\* # 6

- \*\*Substance #1\*\* (Plant Site)

- MFG ID #1/Substance

- Co. WBS

- \*\*Various Tablet FP\*\* (Plant Site)

- MFG Intermediate

- Co. WBS

### ##### \*\*Trade-rep Stage (Second)\*\* # 7

Multiple nodes showing trade representation activities

### ##### \*\*Packaging Stage\*\* # 8

- \*\*Material (01)\*\* (Plant Site)

## Public

- \*\*MFG Strips & Bottles\*\* (Co. WBS)

- \*\*1 FG Strips/Bottles\*\* (Plant Site)

- \*\*Household (01)\*\* (Plant Site)

- MFG Strips

- Plant Site

- MFG with Substance for Co. WBS

- \*\*MFG Strips/Bottles\*\* (Plant Site)

- \*\*Strips (01)\*\* (Plant Site)

- MFG Strips

- Co. WBS

- \*\*MFG Asia/Pacific Strips\*\* (Co. WBS)

- \*\*Strips (01)\*\* (Plant Site)

- \*\*MFG Asia/Pacific Strips\*\* (Co. WBS)

- \*\*Bottles (01)\*\* (Plant Site)

- MFG Strips

- Co. WBS

- \*\*Strips (01)\*\* (Plant Site)

- \*\*Household (01)\*\* (Plant Site)

- MFG Strips

- Plant Site

- MFG with Substance for Co. WBS

- \*\*Bottles, Substance Specific\*\* (Co. WBS)

- \*\*FP MFG Substance\*\* (Co. WBS)

##### \*\*Trade-SIC-rep Stage\*\* # (9) Trade DC Step would be correct

Trade and SIC representation nodes

##### \*\*Secondary Packaging Stage\*\* # 10

- \*\*MFG (01)\*\* (Plant Site)

- \*\*MFG Strips & Bottles\*\* (Co. WBS)

- \*\*MFG Strips/Bottles\*\* (Plant Site)

- \*\*MFG Asia/Pacific Strips\*\* (Co. WBS)

- \*\*Strips (01)\*\* (Plant Site)

- \*\*MFG Asia/Pacific Strips\*\* (Co. WBS)

- \*\*Bottles (01)\*\* (Plant Site)

- \*\*Bottles (01)\*\* (Plant Site)

- \*\*Household (01)\*\* (Plant Site)

- \*\*FP MFG Substance\*\* (Co. WBS)

##### \*\*Market Stage (Final Distribution) \*\* # 11

## Public

### # Sub Categories

# 9 / 9 Sub Categories identified (correct order)

# 8 / 9 Sub Categories, correctly identified and named

- \*\*US Markets\*\* # 1

- \*\*Canadian Markets\*\* # 2

- \*\*EMEA Markets\*\* # 3

- \*\*Large Asia/Pacific Markets\*\* # (4) wrong extraction, should be Latin America Markets

- \*\*Russia Markets\*\* # 5

- \*\*AP Markets\*\* # 6

- \*\*S. Africa Markets\*\* # 7

- \*\*Australia, Korea, Singapore, Taiwan, Thailand Markets\*\* # 8

- \*\*Indonesian Markets\*\* # 9

### ### Visual Elements

#### - \*\*Color Coding\*\*:

- Green boxes appear to represent primary production sites
  - Red/Pink boxes appear to represent certain processing or warehouse stages
  - Blue/Cyan boxes appear to represent specific operations
- \*\*Flow Lines\*\*: Connect various stages showing material and information flow
- \*\*Hierarchical Structure\*\*: Clear progression from raw materials to finished goods to market distribution

## Extraction Output 2:

# Supply Chain Map Analysis

## Summary

This document presents a comprehensive supply chain map for a product (likely a pharmaceutical or chemical product based on the structure). The map traces the flow from raw material intermediates through various processing stages (trade-ops, chemical/API production, spray drying, formulation) to final packaging and distribution across multiple global markets.

## Detailed Content Extraction

### Document Header Information

- \*\*Title\*\*: Supply Chain Map

- \*\*Classification\*\*: Proprietary

- \*\*Legend Reference\*\*: Physical & Financial Supply Chain (referenced as BELSIEGO/ABS-LPSA with color-coded status indicators)

- \*\*Note\*\*: "DO NOT DISPLAY" marking present

### Supply Chain Structure

The supply chain is organized into the following stages (left to right):

**# Main Steps**

# 11 / 12 Main Steps identified (correct order)

# 11 / 12 Main Steps, correctly identified and named

#### Stage 1: Intermediate\*

- \*\*Substance #1\*\* (Plant 001)

  - MSD in [Location]

  - Co. MSD

  - \*\*Suppliers\*\*: India, COVID (2P)

- \*\*Substance #2\*\* (Plant 002)

  - MSD in [Location]

  - Co. MSD

  - \*\*Suppliers\*\*: India, FIS (2P)

#### Stage 2: Trade-rep\*

- \*\*DNS Suppliers (India)\*\* (Plant 003)

- \*\*DNS Suppliers (Singapore)\*\* (Plant 004)

#### Stage 3: Chemical (API)\*

- \*\*Substance #3\*\* (Plant 005)

  - MSD in [Location]

  - Co. MSD

  - \*\*Connections\*\*: Glycerine Point

- \*\*India\*\* (Plant 006)

  - FIS (2P)

  - \*\*Note\*\*: Labeled with "Labour / labor rights through CSR" and "ASR ingredients (2P)"

  - \*\*Additional note\*\*: "Sustainability & Traceability"

#### Stage 4: Warehouse\*

## Public

- \*\*MSD in [Location]\*\* (multiple facilities)

- \*\*MSD with Brenntag EU\*\* (Co. MSD)

### ##### \*\*Stage 5: Spray Drying\*\*

- \*\*Portugal (P)\*\* (Plant 007)

- \*\*Italy (I)\*\* (Plant 008)

- \*\*MSD with Brenntag EU\*\* (Co. MSD)

### ##### \*\*Stage 6: Formulation\*\*

- \*\*Substance #4\*\* (Plant 009)

- MSD in [Location]

- Co. MSD

- \*\*Various Liquid (L)\*\* (Plant 010)

- MSD International

- Co. MSD

- \*\*Sterile Liquid (SL)\*\* (Plant 011)

- \*\*Sterile Liquid (SL)\*\* (Plant 012)

### ##### \*\*Stage 7: Trade-rep\*\*

Multiple facilities with various specifications and MSD designations

### ##### \*\*Stage 8: Packaging\*\*

- \*\*Blister (BL)\*\* (Plant 013)

- MSD Intl & Europe

- Co. MSD

- \*\*LTSE (Long-term)\*\* (Plant 014)

- MSD Intl & Europe

- Co. MSD

- \*\*Secondary (S)\*\* (Plant 015)

- MSD Intl

- Co. MSD

- \*\*Bottles (BO)\*\* (Plant 016)

- MSD Intl & Europe

- Co. MSD

- \*\*Pouches (P)\*\* (Plant 017)

- MSD Intl

- Co. MSD

- \*\*Blister (BL)\*\* (Plant 018)

- MSD Intl & Europe

- Co. MSD

- \*\*Bottles, Syringes\*\* (Plant 019)

- PT MSD Indonesia

## Public

- Co. MSD

### ##### \*\*Stage 9: Trade-DC-rep\*\*

Not detailed in visible content

### ##### \*\*Stage 10: Secondary Packaging\*\*

- \*\*Shipper (SH)\*\* (Plant 020)

- MSD Intl & Europe

- Co. MSD

- \*\*Shipper (SH)\*\* (Plant 021)

- MSD Intl & Europe

- Co. MSD

- \*\*Pouches (P)\*\* (Plant 022)

- Bottles (BO)

- Shipper (SH)

- \*\*Note\*\*: Ethylene or PET

- \*\*Shipper (SH)\*\* (Plant 023)

- MSD Intl & Europe

- Co. MSD

### ##### \*\*Stage 11: Market\*\*

Final distribution to:

#### # Sub Categories

# 8 / 9 Sub Categories identified (correct order)

# 7 / 9 Sub Categories, correctly identified and named

- \*\*US Markets\*\* # 1

- \*\*Canadian Markets\*\* # 2

- \*\*EMEA Markets\*\* # 3

- \*\*Large Africa Markets\*\* # (4) wrong extraction, should be Latin America Markets

- \*\*Russia Markets\*\* # 5

- \*\*AP Markets\*\* # 6

- \*\*S. Africa Markets\*\* # 7

- \*\*Indonesian Markets\*\* # 8

#### ### Key Features

- Color-coded boxes indicating different operational statuses (though specific colors not visible in text)

- Multiple parallel processing streams

- Geographic diversity in manufacturing and distribution

- Integration of sustainability and labor rights considerations

- Complex network of MSD (likely Merck Sharp & Dohme) facilities and third-party suppliers

## Extraction Output 3:

### # Supply Chain Map Analysis

## ## Summary

This document presents a comprehensive supply chain map for a product (likely a pharmaceutical or chemical product based on the structure). The map traces the flow from raw material intermediates through various processing stages (trade-ops, chemical/API production, spray drying, formulation) to final packaging and distribution across multiple global markets.

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### ### Supply Chain Structure

The supply chain is organized into the following stages (left to right):

#### # Main Steps

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- # 11 / 12 Main Steps, correctly identified and named

#### #### Stage 1: Intermediate\*

- \*\*Substance #1\*\* (Plant 001)
  - MSD in [Location]
  - Co. MSD
  - \*\*Suppliers\*\*: India, COVID (2P)
- \*\*Substance #2\*\* (Plant 002)
  - MSD in [Location]
  - Co. MSD
  - \*\*Suppliers\*\*: India, FIS (2P)

#### #### Stage 2: Trade-rep\*

- \*\*DNS Suppliers (India)\*\* (Plant 003)
- \*\*DNS Suppliers (Singapore)\*\* (Plant 004)

#### #### Stage 3: Chemical (API)\*

- \*\*Substance #3\*\* (Plant 005)
  - MSD in [Location]
  - Co. MSD
  - \*\*Connections\*\*: Glycerine Point
  - \*\*India\*\* (Plant 006)
    - FIS (2P)
- \*\*Note\*\*: Labeled with "Labour / labor rights through CSR" and "ASR ingredients (2P)"
- \*\*Additional note\*\*: "Sustainability & Traceability"

#### #### Stage 4: Warehouse\*

- \*\*MSD in [Location]\*\* (multiple facilities)
- \*\*MSD with Brenntag EU\*\* (Co. MSD)

#### #### Stage 5: Spray Drying\*

## Public

- \*\*Portugal (P)\*\* (Plant 007)
- \*\*Italy (I)\*\* (Plant 008)
- \*\*MSD with Brenntag EU\*\* (Co. MSD)

### ##### \*\*Stage 6: Formulation\*\*

- \*\*Substance #4\*\* (Plant 009)
- MSD in [Location]
- Co. MSD

- \*\*Various Liquid (L)\*\* (Plant 010)
- MSD International
- Co. MSD

- \*\*Sterile Liquid (SL)\*\* (Plant 011)
- \*\*Sterile Liquid (SL)\*\* (Plant 012)
- MSD International
- Co. MSD

### ##### \*\*Stage 7: Trade-rep\*\*

Multiple facilities with various specifications and locations

### ##### \*\*Stage 8: Packaging\*\*

- \*\*Blister (01)\*\* (Plant 013)
- MSD Intl & Europe
- Co. MSD

- \*\*LTD Blister/Carton\*\* (Plant 014)
- MSD Intl & Europe
- Co. MSD

- \*\*Secondary (01)\*\* (Plant 015)
- MSD Intl
- Co. MSD

- \*\*Blister (02)\*\* (Plant 016)
- MSD Intl & Europe
- Co. MSD

- \*\*Pump (P)\*\* (Plant 017)

- Supplier (P)
- Co. MSD

- \*\*Note\*\*: Silicone or PET?

- \*\*Blister (03)\*\* (Plant 018)

- \*\*Blister (04)\*\* (Plant 019)
- MSD Intl & Europe
- Co. MSD

- \*\*Blister (05)\*\* (Plant 020)

## Public

- MSD Intl & Europe
- Co. MSD
- \*\*Blister (06)\*\* (Plant 021)
- MSD Intl & Europe
- Co. MSD
- \*\*Blister (07)\*\* (Plant 022)
- MSD Intl & Europe
- Co. MSD
- \*\*Blister, Sachet/Pouch\*\* (Plant 023)
- PT MSD Subsidiary
- Co. MSD

### ##### \*\*Stage 9: Trade-DC-rep\*\*

Distribution centers for various markets

### ##### \*\*Stage 10: Secondary Packaging\*\*

Additional packaging facilities

### ##### \*\*Stage 11: Market\*\*

#### # Sub Categories

# 8 / 9 Sub Categories identified (correct order)

# 7 / 9 Sub Categories, correctly identified and named

Final distribution to:

- \*\*US Markets\*\* # 1
- \*\*Canadian Markets\*\* # 2
- \*\*EMEA Markets\*\* # 3
- \*\*Large Africa Markets\*\* # 4 (wrong extraction, should be Latin America Markets)
- \*\*Russia Markets\*\* # 5
- \*\*AP Markets\*\* # 6
- \*\*S. Africa Markets\*\* # 7
- \*\*Indonesian Markets\*\* # 8

### ### Key Features

- \*\*Color Coding\*\*: The map uses different colors to distinguish between current operations, future plans, and different types of facilities
- \*\*Geographic Diversity\*\*: Operations span multiple continents including Europe, Asia, Africa, and the Americas
- \*\*Complexity\*\*: Multiple parallel processing streams and packaging options
- \*\*Confidentiality\*\*: Marked as "DO NOT DISPLAY" and "Proprietary"