

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)*

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)

- **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

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

- **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

- 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

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Supply Chain Structure

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 - 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

- **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)

- 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"