



# SUSTAINABLE AND CONSISTENT ECLASS INTEGRATION @ B. BRAUN GROUP

THE DATA MANAGEMENT PERSPECTIVE



# FOREWORD

WHAT WOULD I LIKE TO PRESENT TO YOU?

## ***My Intension for today***

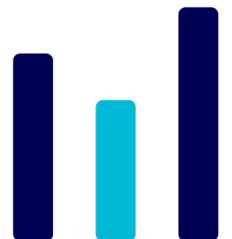
I would like to briefly show you how B. Braun currently integrates the ECLASS classification system into its various areas.

## ***My Basic Assumption***

Master Data is ***required as important parameter*** in processes & it is ***generated*** from processes & Master Data has its ***own life cycle***.

## ***My Statement***

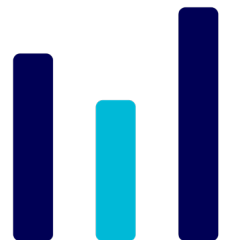
This simplified view clearly illustrates that ***Master Data Management*** is a useful addition to the world of processes and should therefore never be viewed solely from a “pure Master Data Management perspective.”



# AGENDA

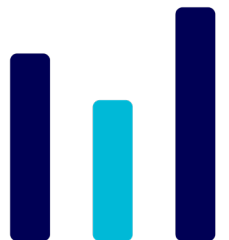
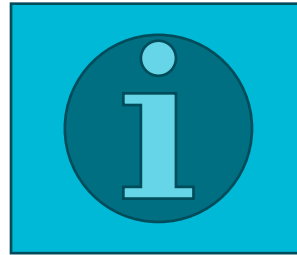


- B. Braun at a Glance video
- ECLASS in Product Data
- ECLASS in Spare Part Master Data Management
- ECLASS in Procurement
- Sustainable Solutions – an outlook into the future



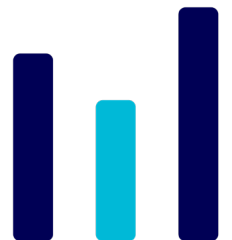
# B. BRAUN AT A GLANCE

## B. BRAUN GROUP INTRODUCTION



# AGENDA

- B. Braun at a Glance video
- **ECLASS in Product Data**
- ECLASS in Spare Part Master Data Management
- ECLASS in Procurement
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# ECLASS IN PRODUCT DATA

## A BRIEF EXPLANATION OF TERMS

- Products are ***saleable Material Numbers*** – administrated in SAP – do have sales organizational data and GTIN's assigned to our specific units of measures
- Our ERP is a **SAP** R/3 System landscape (we are currently moving to S/4 HANA) and have introduced SAP MDG-M for Material Master
- ***Material Master Data Governance*** is currently being introduced for the material object across all processes, as well as for the object material classification, specifically for classes, characteristics, and values – ***governance for so called global data fields is existing since more than 20 years***
- For historical reasons, we use our ***own in-house material classification*** system, but we have to classify our products according to **ECLASS** and **UNSPSC** — market requirements

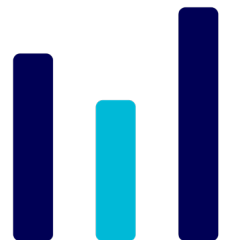


## PRODUCT DATA – MASTER DATA MANAGEMENT

- We have implemented **Material Master Data Processes** (Workflows) for global data fields – 5 Processes
- We have in parallel **semi manual processes to classify / value** our Material Numbers – sales purposes, regulatory data, production data
- On top we have implemented a **mapping application** from own inhouse classification into ECLASS – UNSPSC will be mapped by service provider

### **Our current challenges**

ECLASS release changes (fully supported by a service provider) are time-consuming caused in our own Data Model. Data quality must be checked retrospectively. Mapping is always an additional process



# ECLASS IN PRODUCT DATA

## Product Information

Global (English)



SAP Shorttext EN

INJEKT 2 ML



> Characteristics / Classification

> eCl@ss

> Global SAP Master Data

> Local SAP Master Data

> Distribution Chain Specific Information

> Intellectual Property

> Registrations -- NEW --

> Packing Units

### Global SAP Master Data

A Segment	Attribute Value
Material Number	4606027V
Material Short Text	INJEKT 2 ML
Material Type	BBM
Base Uom	ST
Base Uom ISO	PCE
Temperature Conditions	ZZ
Transport Group	1
Division	MM
Product Hierarchy	MM 40 092 IA1

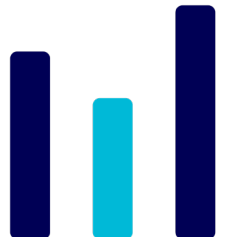
### Distribution Chain Specific Information

1010E0DCHAIN	Attribute Value
Minimum order qty	
Delivering Plant	DE10
Minimum delivery qty	
Delivery unit	25
DChain-spec. status	V2
Sales unit	PAK
Apothekenpflicht	63

**Material  
Master  
Data**

### Packing Units

Units	Factor	Dimension	Volume	EAN Number	EAN Type
ST	1/1	10.9x 3.4x 1.2 CM	44.472 CCM	4022495250810	GTIN
ST	1/1	10.9x 3.4x 1.2 CM	44.472 CCM	04022495250827	JP GTIN
PAK	100/1	38x 12x 7 CM	3.192 CDM	4022495250827	GTIN
PAK	100/1	38x 12x 7 CM	3.192 CDM	14022495250824	JP GTIN
PAK	100/1	38x 12x 7 CM	3.192 CDM	02057895	PZN
PAK	100/1	38x 12x 7 CM	3.192 CDM	1391333	CH





# ECLASS IN PRODUCT DATA

## Product Information

Global (English)



SAP Shorttext EN

INJEKT 2 ML



## > Characteristics / Classification

### > eCl@ss

- > Global SAP Master Data
- > Local SAP Master Data
- > Distribution Chain Specific Information
- > Intellectual Property
- > Registrations -- NEW --
- > Packing Units

## Characteristics / Classification

### Articles for BKC

### General product information FIN

### Syringes

Attribute Name	Attribute Value
Brand name	Injekt®
Product name (HC)	Injekt® Luer Solo
Product type	Syringe
Application	Standard
Construction of syringe	2-piece
Style of syringe cone	Luer
Position of syringe cone	centric
Nominal capacity	2.0 ml
Total graduated capacity	3.0 ml
Max. usable capacity	3.30 ml
Scale value	0.1000 ml

Own Classification

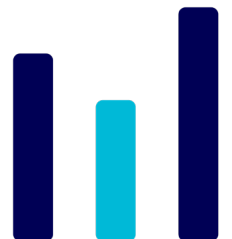
Material  
Classification

## eCl@ss

### Injection syringe (disposable)

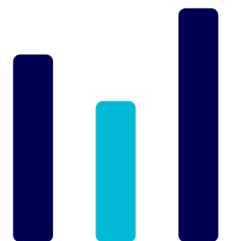
Attribute Name	Attribute Value
allergenic potential	nickel free, free of phthalate, latexfree, polyvinylchloride-free
Number of parts (syringe)	2-piece
Graduation till	3.000000000 ml
light-protected	No
Material of syringe	POLYPROPYLENE, POLYETHYLENE
syringe nominal volume(medic.)	2.000000000 ml
med.Syringe volume usab.up to	3.300000000 ml

Translated into  
ECLASS



# AGENDA

- B. Braun at a Glance video
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- ECLASS in Spare Part Master Data Management
- ECLASS in Procurement
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## A BRIEF EXPLANATION OF TERMS

- Spare Parts are ***active and harmonized Material Numbers (Material Type HIBE)*** – administrated in SAP – do have plant assignments
- Our ERP is a ***SAP R/3*** System landscape (we are currently moving to S/4 HANA) and have introduced SAP MDG-M for Material Master
- ***Master Data Governance*** – we have an instance for all global Material Master Data established (internal name is ***Transfer Point***) and we are using a template for local data, which is managed by an organization called ***COC (Center of Competence) Spare Part & Inventory Management***
- We have established an instance named ***Classification Service Agency*** which is responsible for the spare parts classification – we are using ECLASS classes and properties in material classification without mapping



## SPARE PART MASTER DATA MANAGEMENT

- **Material Master Data Administration** of spare parts and their material classification takes place in SAP in combination with a third-party tool from a service provider → so called Ticket System
- Our **service provider classifies / values** the materials according to the ECLASS classification and our governance “Classification Service Agency” gives final approval
- Material master data combined with classification data gives users the opportunity to **search for and find spare parts**—and that is the added value

### **Our current challenges**

ECLASS release changes (supported by a service provider) are time-consuming caused in our own Data Model & Data Quality is always a fight



SOLENOID VALVE VUVG-B10-M52-MZT-F-1T1L (HSP00061833)

Product Information

Global (English)

> Characteristics

> Global SAP Master Data

> Stock Information

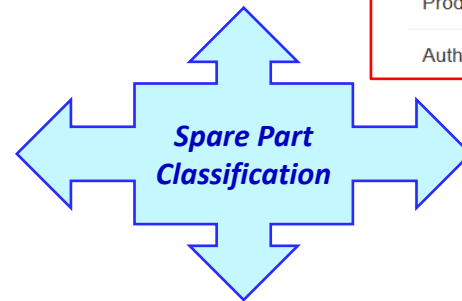


## Global SAP Master Data

A Segment	Attribute Value
Material Number	HSP00061833
Material Short Text	SOLENOID VALVE VUVG-B10-M52-MZT-F-1T1L
Material Type	HIBE
Base Uom	ST
Base Uom ISO	PCE
Temperature Conditions	ZZ
Transport Group	1
Division	OT
Product Hierarchy	OT 99 999 ZZ1
Authority Group	OT30

## Characteristics

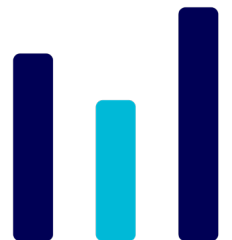
Attribute Name	Attribute Value
WEIGHT	0.0530000 kg
MANUFACTURER PRODUCT NUMBER	573417
MANUFACTURER NAME	FESTO
DESCRIPTION OF PRODUCT TYPE	VUVG-B10-M52-MZT-F-1T1L
MIN. OPERATIONAL PRESSURE	-0.900 bar
MIN. MEDIUM TEMPERATURE	-5.000 °C
STANDARD NAME	SOLENOID VALVE
BOX	2
MAX. MEDIUM TEMPERATURE	60.000 °C
MAX. PRESSURE	8.000 bar
SUPPLY VOLTAGE TYPE	DC



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## A BRIEF EXPLANATION OF TERMS

- The scope of **procurement** includes all **raw materials, components/semi-finished parts, and consumables/operating supplies**.
- Our ERP is a **SAP R/3** System landscape (we are currently moving to S/4 HANA) and have introduced SAP MDG-M for Material Master
- **Master Data Governance** is currently being introduced for the object material across all processes
- **Material Classification** not yet established – just started with a few examples.
- Procurement uses **material groups** to define categories for managing the spend.

### **Our current challenges**

No direct connection to ECLASS – internal mapping currently under construction



# ECLASS IN PROCUREMENT

## ECLASS IN PROCUREMENT

✓  → Additional Data  Org. Levels

**Basic data 1** Basic data 2 Foreign trade import Sales: sales org. 2 Classifica... > v

Material

**General data**

Base Unit of Measure	<input type="text" value="PC"/>	Piece	Material Group	<input type="text" value="AD06"/>	<input type="button" value="i"/>
Old material number	<input type="text"/>				
Division	<input type="text" value="MP"/>	Prod.hierarchy	<input type="text" value="MP 65 766 W12"/>		
X-plant matl status	<input type="text" value="M2"/>	Valid from	<input type="text" value="05.09.2007"/>		
X-DChain status	<input type="text" value="V2"/>	Valid from	<input type="text" value="05.09.2007"/>		
state of maint.	<input type="text" value="X"/>				

**Material authorization group**

Authorization Group

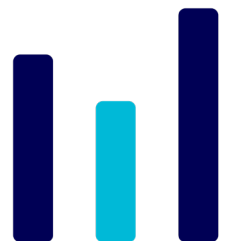
<input type="checkbox"/>	MANDT	SPRAS	MATKL	WGBEZ
<input type="checkbox"/>	100		AD	electronics
<input type="checkbox"/>	100	EN	AD01	components *
<input type="checkbox"/>	100	EN	AD01AA	active,SMD
<input type="checkbox"/>	100	EN	AD01AB	active,wired
<input type="checkbox"/>	100	EN	AD01AC	passive, SMD
<input type="checkbox"/>	100	EN	AD01AD	passive, wired
<input type="checkbox"/>	100	EN	AD01AE	electromechanical
<input type="checkbox"/>	100	EN	AD02	electricity supply
<input type="checkbox"/>	100	EN	AD03	components-/systems*
<input type="checkbox"/>	100	EN	AD03AA	printed circuitboard
<input type="checkbox"/>	100	EN	AD03AB	foot-operated switch
<input type="checkbox"/>	100	EN	AD03AC	conncector plug
<input type="checkbox"/>	100	EN	AD03AD	rotor/stator
<input type="checkbox"/>	100	EN	AD03AE	small components
<input type="checkbox"/>	100	EN	AD04	connectors
<input type="checkbox"/>	100	EN	AD05	cable *
<input type="checkbox"/>	100	EN	AD05AA	line cord



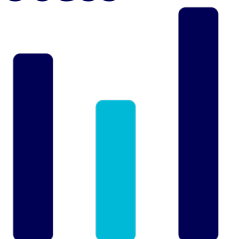
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- Master Data Management Driven Perspective
  - **Unique Repository** – Basic Data – means Providing a single source for ECLASS— classes/characteristics/values – in SAP for the Material Classification object
  - **ECLASS** as an **own classification** – avoid mappings & build sustainable data structures in SAP
- Process Driven Perspective
  - **Product** – From Idea to End of Life – add from the first time on ECLASS classification as the leading repository – from drawing to material number – inheriting attributes throughout the entire life cycle
  - **Spare Parts** – when introducing a new production machine, the data registration of the necessary spare parts must go hand in hand with this, thus ensuring transparency
  - **Procurement** – bring material groupings to ECLASS and connect all the dots in the process worlds



# CLOSING REMARKS

## AN ODE TO STANDARDS

### *Standards*

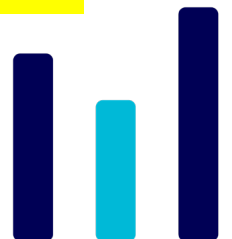
**ECLASS** or **ISO 8000** ensure that all parties involved – both internal and external – speak the same language. This reduces misunderstandings and facilitates communication between departments, locations, or with customers and suppliers

### *Applying Standards*

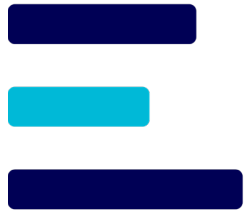
Standardized data structures are easier to expand, migrate, or transfer to new systems. This is particularly relevant when introducing **AI**, **digital twins**, or **Industry 4.0** applications

### ***“Only my opinion”***

The earlier you integrate “standards” into your process world, the easier it is to operate them automatically



B. BRAUN SE



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**THANK YOU FOR YOUR ATTENTION.**