



IMDS SUBMISSION GUIDELINES

2023



Introduction

This guide is intended to be used alongside the IMDS Recommendations & the IMDS User Manual and stipulates specific requirements when submitting Material Data Sheets to McLaren Automotive. Where not specified in this document, it is expected that rules and guidelines for submissions contained within the IMDS Recommendations & the IMDS User Manual are followed.

If you are unsure of any requirements relating to Material Data Sheet submissions through IMDS, please contact Compliance@McLaren.com.

Revisions

Revision No.	Date	Description
1.0	19/05/2023	Initial Release

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1. General Requirements

1.1 When an MDS is required

McLaren Automotive requires an MDS for all parts present on the finished vehicle as well as after-sales & service parts. The MDS should accurately reflect the chemical make-up of the delivered part & should be updated in line with any material changes. The data sheet should reflect the final part & should not include any packaging or process chemicals.

Suppliers are expected to ensure accuracy & compliance of their sub-supplier's data sheets when they are included in a submission being made to McLaren.

1.2 Part Numbers

All data sheets submitted to McLaren Automotive should be submitted with the correct **McLaren part number**.

The part number should not contain any version designation e.g. 12MA345CP.02

The correct part number would appear as "12MA345CP".

If a part number changes, a new IMDS submission containing the new part number must be made. This must be sent with a new IMDS ID.-

When submitting for a specific variant/colour code please use the full McLaren part number (including the colour code). For more details on colour code requirements please see section 4.

1.3 Part Weights

It is important that the correct part weight is entered on the material data sheet. This is referred to as the "measured weight" & must reflect the Part Submission Warrant (PSW) weight.

The IMDS "calculated" weight is a roll-up of all measured weights of the materials contained within the data sheet. This must not differ from the measured weight by more than the tolerances specified in IMDS Recommendation 001 (below).

< 1g	100%
< 100g	10%
< 1kg	5%
< 10kg	2%
< 100kg	1%
≥ 100kg	0.5%

If these tolerances are exceeded, the data sheet will report an error when checked. 

It is expected that suppliers will perform this check & resolve any issues before sending the submission to McLaren.

Check results - 1 Error(s) / 1 Warning(s)				
No.	Type	Tab	Node / Recipient	Message
1		Ingredients	 Example Component	Deviation must not exceed 5% for components with a weight of $\geq 100\text{g}$ and $< 1\text{kg}$

If you encounter this error, please review your data sheet & correct the error before sending as this will cause your data sheet to be rejected.

The **Measured Weight** entered in the IMDS must be the average weight of 5 parts that have been physically weighed. This is the same weight that is entered on the Part Submission Warrant (PSW) & must be within tolerance (defined in MSL.08.20.0003) of the McLaren Design Weight.

1.4 Names and Descriptions

All names and descriptions of components & materials contained within the data sheet should be reported in English. The name of the component should match McLaren's internal name of the component.

1.5 Updating Submissions

McLaren Automotive is legally required to have correct & accurate data pertaining to materials contained within our vehicles. Therefore, it is crucial that data sheets are kept up to date and new submissions are made when (but not limited to) there is change relating to:

- Part Weight
- Part Number
- The chemical composition of any aspect of the part (including coatings, sealants etc.)

We may also require a new or re-submission of a part if it is being fitted to a vehicle with a new Type Approval.

1.5.1 Managing Requirement Changes

When a new revision is sent, it is expected that any new requirements, changes to legislation or new reporting rules have been considered & the data sheet amended to conform to the new requirements. **Do not expect** that a new version of a data sheet will be accepted based on the fact that a previous version was accepted.

For information relating to updating submissions containing deactivated content, please see section 5.

2. MDS Structure

2.1 Order of Components, Semi-components, Materials & Substances

McLaren Automotive uses external software to process IMDS submissions which is sensitive to the structure of the MDS. It is therefore crucial that the rules for the structure in IMDS recommendation 001 are followed.

MDS Type	Description	Can be attached to	Can have child nodes	Has weight field
Material 	Represents a homogeneous structure – if a slice were taken through the item, there would be no layers or visible differentiation (exception for electronic components).	Materials, Semi-Components, Components	Material, Substance	No
Semi-Component 	Similar to a material, this represents a structure that will require further processing before it is assembled and given a final weight. Examples are a steel blank or a coated wire. Usage is by length, by volume, or by area.	Semi-Components, Components	Semi-Component, Material	No
Component 	Used to represent an assembly or component with a defined weight and used in whole number quantities. Examples include a bolt, an engine block, a seat, etc. The weight of a Component MDS is defined at creation and cannot be reduced in the structure.	Components	Component, Semi-Component, Material	Yes

Please see the examples below showing correct vs incorrect structures:

Correct Structures:

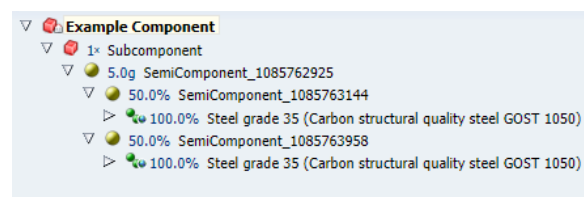


Figure 1

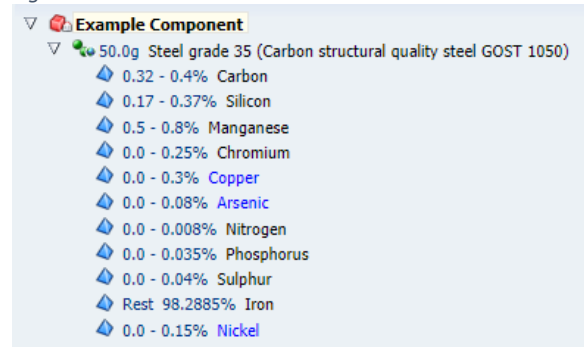


Figure 2



Figure 3

The structures above (Figures 1-3) are correct because at any given level of the tree, only one type of Node exists.

Incorrect Structures:

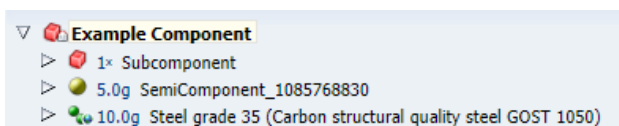


Figure 4

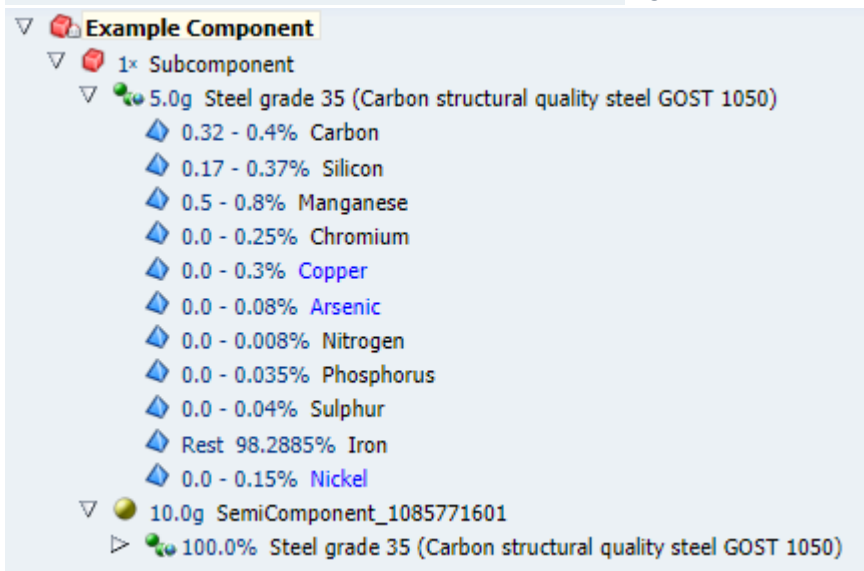


Figure 5

The structures above (Figures 4 & 5) are incorrect because “Components”, “Semi-Components” and “Materials” exist on the same level of the tree.

2.2 Reporting of Substances & Substance Usage Declaration

According to the IMDS rule 4.5.1.A, substances must be reported as they exist in the final material, and therefore an elemental breakdown (C, H, N, O, etc.) is not allowed.

For example, Chromium (iii) Oxide should be reported as Cr₂O₃ (Figure 9). It would be incorrect to report it as X% Cr and X% Oxygen (Figure 8).

If you are using a process chemical, for example oxygen, that genuinely does exist in the final substance unbonded to another element, then it is required to assign a substance usage (Intended use, impurity, reaction residue) (Figure 7). When adding a process chemical to a material in IMDS, you will be prompted to add a substance usage (figure 6).

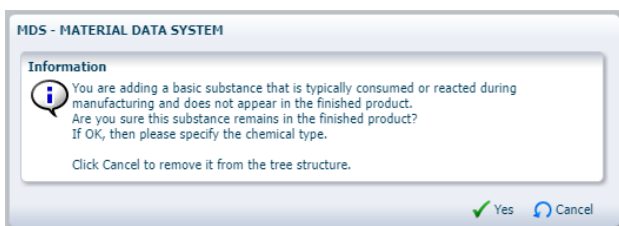


Figure 6

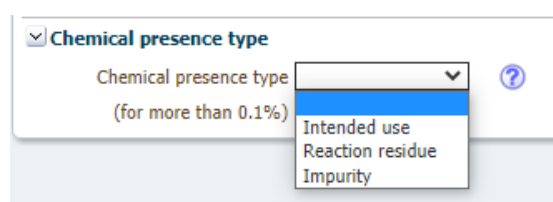


Figure 7

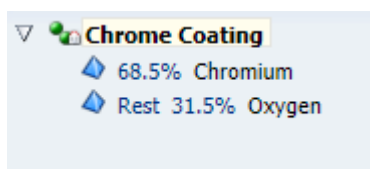


Figure 8

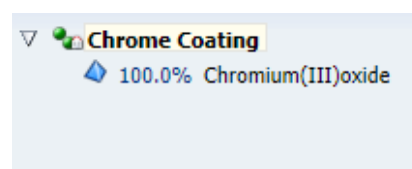


Figure 9

Failure to assign a substance usage will result in the data sheet being rejected.

2.3 Portion ranges

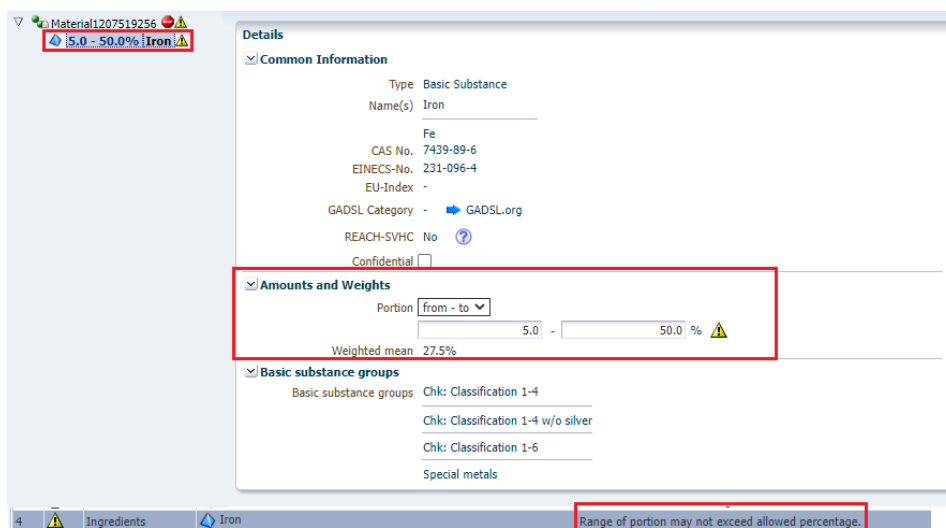
The rules for portions ranges contained within IMDS recommendation 001 (section 4.3.2) are to be followed regardless of the source of the material. It is acceptable to use current/valid data sheets that breach the portion range rules only when they are published by an IMDS Committee company ID or by a company ID that is explicitly exempt from these rules by IMDS.

We are aware of instances where old/deactivated IMDS committee published materials breach these rules. In these cases, it is required that the IMDS committee published material is not used & either an alternative published data sheet is used, or a new material is built from scratch that does not breach the portion range rules.

Where you have **previously** accepted data sheets from your own suppliers that now breach the portion range rules, it is acceptable to include these in your submissions to McLaren Automotive only if the part is not present on a new Type Approval vehicle.

It is not acceptable to receive **new** data sheets from your own suppliers that breach the portion range rules & include them in your submission to McLaren. If you receive a new data sheet from your suppliers that breaches the portion range rules you are expected to have your supplier amend the data sheet before including it in your submission to McLaren Automotive.

Example of incorrect portion range & warning:



3. Declarable & Prohibited Substances

3.1 General Requirements

All declarable and prohibited substances are expected to be accurately and truthfully declared within the IMDS submission, along with assigned exemption codes where applicable. As & when exemptions expire, we may request a new submission.

3.2 Biocidal Products

Substances that fall under the biocidal products substance group must have the biocidal information completed. Failure to do so may result in the submission being rejected.

3.3 How to add Biocidal Product Information

The process for adding biocidal product information differs from the normal data sheet creation process. If a biocidal product is added when creating a new data sheet, it will be highlighted in red in the components structure & under the “Basic substance groups” tab (Figure 10) and on the right-hand side of the screen under the “Regulatory Information” tab (Figure 11) when the material level is selected.

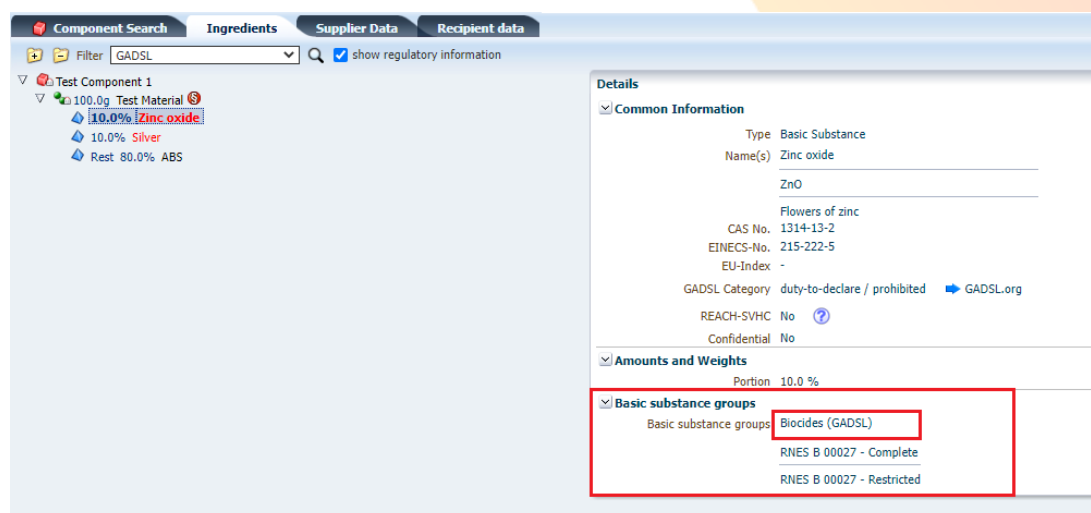


Figure 10

Component Search | Ingredients | Filter: GADSL | Regulation Wizard

Test Component 1

- 100.0g Test Material
- 10.0% Zinc oxide
- 10.0% Silver
- Rest 80.0% ABS

Classification: 5.1.a filled Thermoplastics

SCIP Material Category

Identifier	Type	Descriptions Levels 1 - 3
66539	Material category	plastic (and polymers) > other non-halogenated (co)polymers
66540	Material category	plastic (and polymers) > other halogenated (co)polymers

Additional Material -
Characteristics -
Norms / Standards -
Supplier -

Recyclate

The recyclate content refers to the entire material, not only the polymer content. In case of filled polymers, the recyclate content can therefore only be 100% if the filler material is also recyclate.

Does the material contain recyclate? No

Content of post-industrial/pre-consumer recyclate (see ISO 14021)
Post-Industrial Recyclate that has been diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials, such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it (home scrap recycling)
- %

Content of post consumer recyclate (see ISO 14021)
Post-Consumer Recyclate has been generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of material from the distribution chain
- %

Remark

Regulatory Information

Biocidal Product Regulation

History not available

Still in production? -

Basic Substance	Added for biocidal property?	Biocidal property desired in finished article/product?	Product type
Zinc oxide *	-	-	-
Silver *	-	-	-

*) no regulatory information available, because the reference is not included in this version of the regulatory information

Figure 11

At the point of creating the data sheet, it is not possible to add the biocidal product information. This can only be done once the component/material is internally released.

Once internally released, you need to access the "Regulation Wizard" function. This can be done in two ways. The first method is to open the "Function" tab at the top of the home screen and select the regulation Wizard (Figure 12).

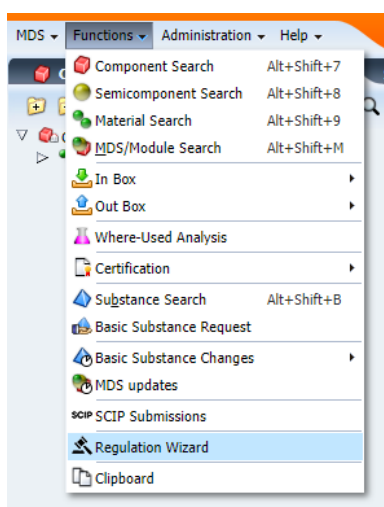


Figure 12

Regulatory Information

Regulation * BPR

Still in production? REACH

Added for biocidal property? BPR

Biocidal property desired BPR

Product type all selected

BPR Substance

Ownership own

State of information own

Last version released ☒

from 12/13/2021 to 01/13/2022

Figure 13

Once the Regulation Wizard is opened, you can search for all of your components/materials relating to BPR by selecting the “BPR” regulation in the third window (Figure 13). You can narrow the search by using the other available fields.

Once you have searched for your component, tick the “Select” box, right click on your component & select “Edit own Regulatory Information” (Figure 14). You can select multiple components from the list at one time.

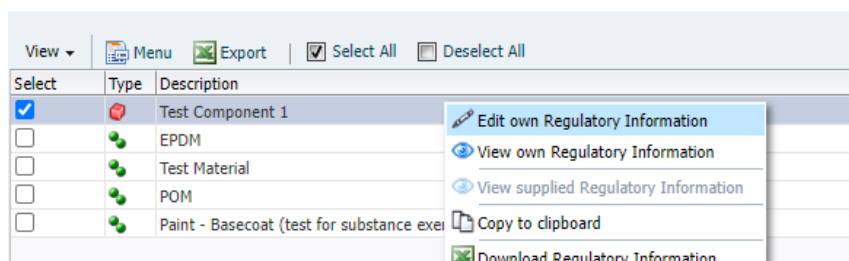


Figure 14

In the window that opens, you can then add the required Biocidal Product Regulation data (Figure 15) and click “Release all” in the bottom right of the screen.

Name	ID / Version	Part/Item No.	CAS No.	EINECS/ELINCS No.	Still in production?	Added for biocidal property?	Biocidal property desired in finished article/product?
Test Component 1	1086485394 / 1	ABCD					
Test Material	1086483433 / 1						
Silver			7440-22-4			No	
Zinc oxide			1314-13-2				

Figure 15

Alternatively, you can use the component search function to search for your internally released components/materials. Once opened, the Regulation Wizard button (Figure 16) will be available to click on & the data can be entered in the same way as above.

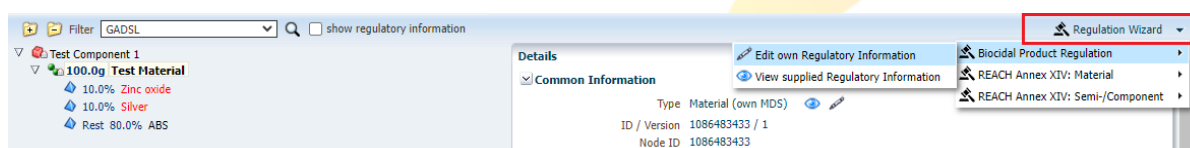


Figure 16

4. Colour-codes

McLaren Automotive is legally obligated to hold accurate data for all materials present on our vehicles. Where a part has different colour/finish options, McLaren Automotive is required to have the data for these various options, regardless of how minor the change is.

4.1 Providing Data For Multiple Colour-codes.

Individual colour codes/options and surface finishes require individual datasheet submissions due to the differing chemical composition of materials contained in each variant. It is not acceptable to submit a single data sheet for a "base part number" with a view to that submission representing all possible variants.

There are instances when providing all possible colour combinations is not feasible. For example, there may be hundreds of possible combinations of leather colours when paired with every possible stitching colour.

Possible Seat Options	Possible Stitching Colours	Possible Leather Colours	Total Possible Permutations
2	20	15	600

In these instances, there are two options:

Option A: The supplier provides separate datasheets to McLaren for the various colours/finishes alongside a main submission for a base spec part. Considering the example in the table above, the supplier would have to provide the following:

Data sheet Description	No. of Data Sheets Required	Description
Seat Options	2	One datasheet for each option with standard fit stitching
Stitching Colours	20	One datasheet for each thread colour
Leather Colours	15	One data sheet for each leather colour
Total	37	

Option B: If the total number of permutations is low, we encourage our suppliers to supply a data sheet for each unique colour-code.

Individual data sheets for specific colour codes/options must be submitted using the full McLaren part number, including the colour code/option code which is separated by a hyphen (-) and without any spaces.

For Example:

14AB123CP-001 ✓

14AB123CP – 001 ✗

14AB123CP.001 ✗

5. IMDS Published Materials

5.1 Using IMDS Published Materials

Using IMDS Committee published materials where possible is preferred, however this should not come at the cost of the overall compliance of the data sheet. Should the data sheet fail to meet the IMDS rules & legislative requirements, the data sheet will be rejected regardless of the provider.

Old versions of IMDS Committee published materials do not always meet the latest level of rules & regulations. To prevent potential issues, it is suggested that the latest version of IMDS Committee published materials are used in your submission.

5.2 Deactivated Materials

It is strongly advised that you do not include deactivated materials in your submissions. Wherever possible, please update your data sheets and request your own suppliers to update their data sheets when a deactivated material is found.

According to the IMDS rules, deactivated materials may still be sent to McLaren Automotive provided that they are contained in a submission that was **previously accepted by you, is still valid and is not part of a submission for a new type-approval**. Any data sheets sent to McLaren for parts being fitted to a new type-approval vehicle (regardless of whether the part is carry-over or not) should not include deactivated data sheets and should meet the latest IMDS rules and exemption codes.