



IMDS 数据质量标准（第六版） 2024.10

IMDS Data quality standard V6 2024.10

泛亚汽车技术中心材料工程科

**PATAC Material Engineering**

## 基本要求

### Scope

- 1 供应商 IMDS 的递交范围：所有需要进行工程认可和 PPAP 的零件。  
IMDS require scope: all parts which need engineering approval and PPAP.
- 2 动力总成的零件（发动机、变速箱及其外围零件）递交到 69064 账号，其它所有整车零件递交到 75773 账号。  
All the powertrain parts should submit to ID 69064 and other vehicle parts should submit to ID 75773.
- 3 供应商完成 IMDS 递交后，需按照以下格式发送通知邮件至 DRE，邮件名称需按照下列规则命名：供应商名称—项目名称—零件号—零件名称。  
After sending the IMDS, supplier need to send email to inform DRE. The title of email should be named as: Supplier name—Program-Part number-Part name.
- 4 用在出口到中国以外区域的 SGM/PATAC 项目的零件，供应商需要把 IMDS 同时提交到 SGM 的 IMDS 账号和 GMNA 的 IMDS 账号 5751。参考 GM IMDS 指导手册 1.4 章节。  
For parts used on SGM /PATAC programs exported to regions outside of China, suppliers should submit IMDS to SGM IMDS accounts and GMNA IMDS account 5751/Refer to section 1.4 in GM IMDS Instruction Manual.

<https://public.mdsystem.com/en/web/imds-public-pages/oem-specific-info>

General Motors (GM) -> GM IMDS INSTRUCTIONS Manual Latest version

## 审核标准

### Check Standard

- 1 零件结构完整，层次正确，零件号和零件名正确。零件名称应和图纸相符或相近，推荐按以下规范格式命名：

Complete part information and correct tree structure, Part number, Part name. Part name should be same or similar to drawing. It is recommended to name the IMDS per the following regulated format:

项目/平台名称 零件 FNA 名称 配置信息 LH/RH

Program/Platform Name Part FNA Name Configuration/Model No. LH/RH

1. 项目/平台名称：如 L233 MY24, E2UB/YB MY24, BEV3, C1YX-2

Program/Platform Name: Such as L233 MY24, E2UB/YB MY24, BEV3, C1YX-2

2. 零件名称：APQP、图纸、SOR、合同等文件中的零件的标准 FNA 名称

Part Name: Standard part FNA name in APQP, Drawing, SOR, contract , etc.,



3. 配置信息/型号：如颜色、工艺、高低配/型号等  
Configuration/Model No.: Such as trim color, process, level / Model No., etc.
4. LH/RH: 左/右件  
LH/RH: Left part / Right part

备注 1:

- 1) 零件 FNA 名称为必填项。
- 2) 跨项目/平台的共用件可不填写项目/平台名称。
- 3) 配置信息/左右件信息没有可不填。
- 4) 紧固件不需要遵守以上规则。

Note1:

- 1) Part FNA name is mandatory.
- 2) The program/platform name for the common parts across program/platform is not required.
- 3) If there is no configuration/Model No. or LH/RH information, it can be left blank.
- 4) Fastener needn't obey the above format requirements, and use the fastener part name itself.

备注 2:

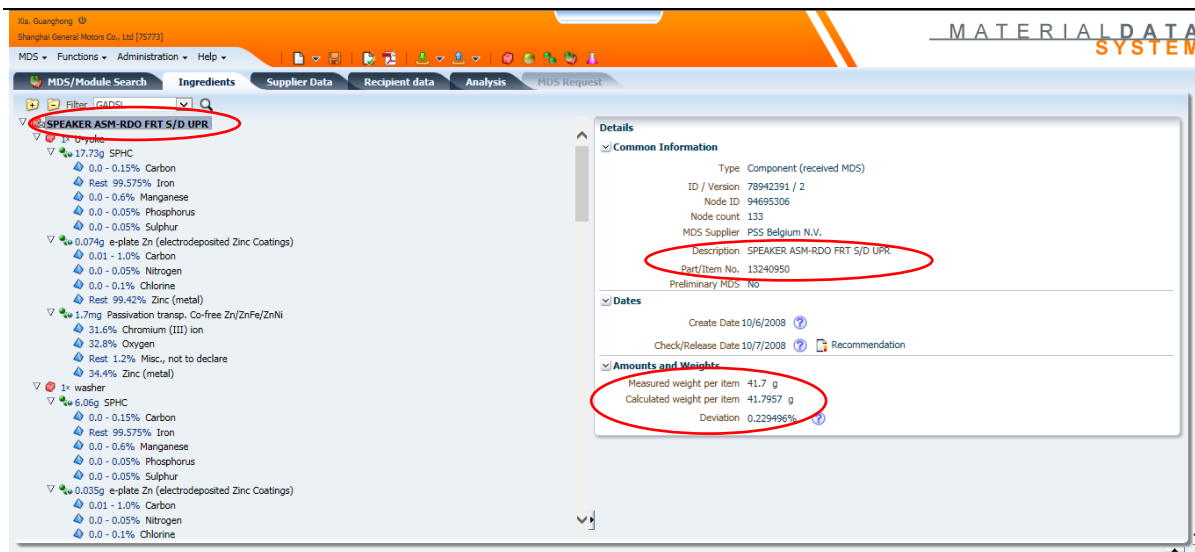
- 1) 只需递交一级零件，每一个一级零件一张表单。
- 2) 车身漆，密封胶，密封条等未知使用重量的材料或零件按照半成部件递交。
- 3) 零件状态为最终产品状态，不得出现样件状态（初级 MDS）。

Note2:

- 1) Submit assembly part not sub-assembly part.
- 2) Those unexpected weight of material of part such as body paint, sealer should be submitted as semi component.
- 3) Part status should be the final status. We can't accept sampling parts (Preliminary MDS is not acceptable).

参考文件/Ref file:

<https://www.mdsystem.com> IMDS recommendation 001  
<https://public.mdsystem.com/en/web/imds-public-pages/oem-specific-info>  
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- 2 申报零件称重重量和材料重量，零件的重量公差要求参考下表。  
Declare part measured weight and material weight information. Part weight tolerance should refer to weight deviation requirement.

#### 零件称重重量和理论重量偏差要求

Part Weight deviation between measure weight and calculated weight

| 重量范围 Weight range     | 最大允许偏差 Deviation Max. |
|-----------------------|-----------------------|
| $X < 1g$              | 100%                  |
| $1g \leq X < 100g$    | 10 %                  |
| $100g \leq X < 1Kg$   | 5 %                   |
| $1Kg \leq X < 10Kg$   | 2 %                   |
| $10Kg \leq X < 100Kg$ | 1 %                   |
| $X \geq 100Kg$        | 0.5 %                 |

- 3 正确申报材料类型和重量，符合的标准等，部分材料需要申报材料供应商及牌号，是否标识。

Correct material classification, mass, standard, such as GMW, EDS(JIS), EN(ISO),etc.

参考文件/Ref file: IMDS recommendation 001a

- ① 材料分类 5.1 是一个简要分类，符合这个高等级分类的材料需要进一步区分成 5.1.a 和 5.1.b。只分到 5.1 分类的材料将会被退回。

Material classification 5.1 is a summary classification. Materials matching this high-level classification should be further characterized to differentiate between 5.1.a and 5.1.b. Material characterized to classification 5.1 only will be rejected.

- ② 符合以下条件的材料，需申报材料供应商及牌号：

Need to declare supplier name and brand name if material according to standard below:

塑料：大于 100 克/Plastics：>100g

橡胶和弹性体：大于 200 克/Rubber and Elastomer: >200g

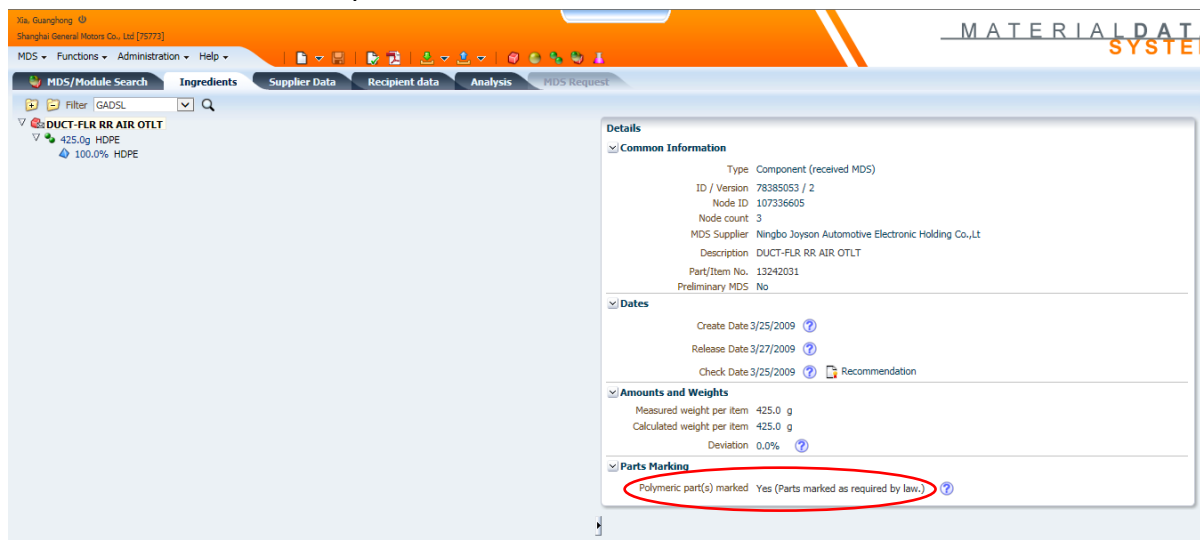
金属材料：均需要申报。/Metal: All

- ③ 标识要求：

塑料：大于 100 克/Plastics：>100g

橡胶和弹性体：大于 200 克/Rubber and Elastomer: >200g

举例如下：/ For example:



The screenshot shows the MATERIAL DATA SYSTEM interface. The left sidebar displays a search filter for 'DUCT-FLR RR AIR OTLT' with a weight of 425.0g HDPE and a deviation of 100.0%. The main panel shows details for this component, including common information, dates, amounts and weights, and parts marking. The 'Parts Marking' section is highlighted with a red circle, showing 'Polymeric part(s) marked' as 'Yes (Parts marked as required by law.)'.

| Details                    |                                                     |
|----------------------------|-----------------------------------------------------|
| Common Information         |                                                     |
| Type                       | Component (received MDS)                            |
| ID / Version               | 78385053 / 2                                        |
| Node ID                    | 107336605                                           |
| Node count                 | 3                                                   |
| MDS Supplier               | Ningbo Joyson Automotive Electronic Holding Co.,Ltd |
| Description                | DUCT-FLR RR AIR OTLT                                |
| Part/Item No.              | 13242031                                            |
| Preliminary MDS            | No                                                  |
| Dates                      |                                                     |
| Create Date                | 3/25/2009                                           |
| Release Date               | 3/27/2009                                           |
| Check Date                 | 3/25/2009                                           |
| Amounts and Weights        |                                                     |
| Measured weight per item   | 425.0 g                                             |
| Calculated weight per item | 425.0 g                                             |
| Deviation                  | 0.0%                                                |
| Parts Marking              |                                                     |
| Polymeric part(s) marked   | Yes (Parts marked as required by law.)              |



Details

Common Information

Type Component (MDS)

Description Single male housing code A

Part/Item No. 8 638 802 400

Dates

Create Date 10/17/2007

Release Date 10/24/2007

Check Date 1/8/2008

Recommendation

Amounts and Weights

Quantity 1

Measured weight per item 0.384 g

Calculated weight per item 0.384 g

Deviation 0.0%

Parts Marking

Not Applicable (Parts do not require marking due to specifications of weight, geometric restriction or surface requirements.)

- 4 申报所有的材料与物质信息，并符合 GMW3059 和 GADSL 对禁用和限用物质的要求，符合 EU ELV ANNEX II 最新版豁免范围的材料，在 Application 中选择相应的豁免项。

Declare all material and substances refer to GMW3059 and GADSL requirement.

参考文件/Ref file:

<https://www.mdsystem.com>

<https://public.mdsystem.com/en/web/imds-public-pages/oem-specific-info>

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MDS - MATERIAL DATA SYSTEM

Application

Component Component\_588633971

Material ABS\_80994056

Basic Substance Lead

Portion 0.02 % (MAX)

Application

10 Alloying element in copper

12 Carbon brushes for electric motors

20 Other application (potentially prohibited)

43 Copper in friction materials of brake linings

44 Concentration within acceptable GADSL limits

51 Alloying element in bearing shells and bushes in engines, transmissions and air conditioning compressors.

52 Alloying element in bearing shells and bushes for all other applications (potentially prohibited).

53 Lead in solder used in electronic circuit board applications - 8a)

54 Lead in solders in electrical applications other than soldering on electronic circuit boards or on glass - 8b)

55 Lead in finishes on terminals of electrolyte aluminium capacitors - 8c)

56 Lead used in soldering on glass in mass airflow sensors - 8d)

57 Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more

Recycle

Does the material contain recycled content?

No

Content of post-industrial/pre-consumer recycled content (see ISO 14021)

Post-Industrial Recycled content that has been diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials, such as rework, reground 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 recycled content (see ISO 14021)

Post-Consumer Recycled content 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

Application

Component Component\_588633971

Application Basic Substance % (MAX) Application ID

Lead 0.02 Alloying element in copper

Remark

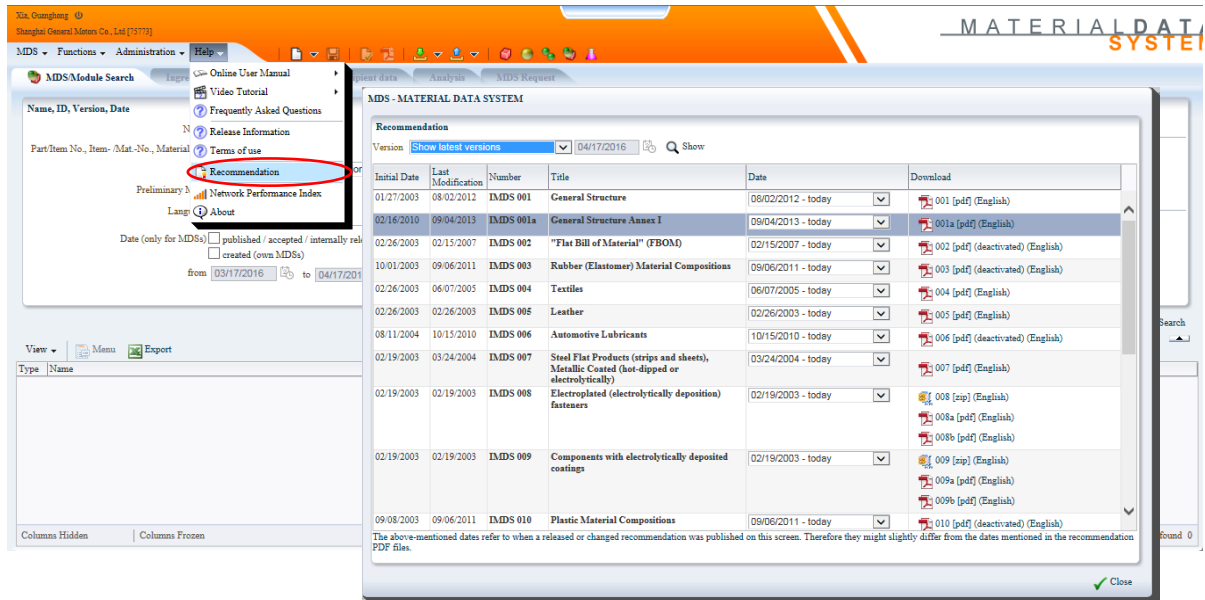
- 5 典型材料中物质的含量申报方法参考 IMDS recommendation 001a

Typical material substance content declare refer to IMDS recommendation 001a

参考文件/Ref file: <http://www.mdsystem.com>

这些文件涉及了各种复杂或特殊零件的申报方法，如金属镀层，紧固件，润滑油，密封材料，汽车灯，汽车操纵系统，滤清器，热系统等。

Those files give IMDS recommendation method about complicated parts or special parts, such as coating, fastener, lubricant, seal strip, automotive lamp, etc.



- ① 不再接受电子电器零部件的 IMDS REC019 标准模块，需要按照 IMDS REC001 的推荐方式申报。

E/E components with IMDS REC019 standard modules are not accepted, and should be declared per IMDS REC001 recommendations.

- ② 复合材料需要按照材料下挂材料的结构形式申报，参考 IMDS REC001a 1.4.1。Composite material should be declared with the structure of composite material node with lower material node. Refer to IMDS REC001a 1.4.1.
- ③ 过程物质/气态/液态物质需要标注物质存在形式  
Process substance/Gas/Liquid substance should mark the chemical presence type.

## 6 使用通配符申报保留物质（最大值不得超过材料重量的 10%），必须说明保留部分满足 GMW3059 和 GADSL 的要求。

Declare compliance to GMW3059 and GADSL about Misc and Jokers used in material. The maximum percentage of confidential substance should not exceed 10% mass of material.

参考文件/Ref file:

当使用通配符如“misc, not to declare”或“confidential substance”等申报保密物质时，必须申明材料满足 GMW3059 和 GADSL 的要求。

Whenever misc or confidential substance are used in a MDS, you must declare that the material in the MDS is in compliance with GMW 3059 and GADSL guidelines.

在材料等级的 Remark 框中可以填写以下申明：



“此材料的配方符合 GMW3059 和 GADSL 对禁用和限用物质含量的要求”。我们比较推荐将声明写在这个位置。二级供应商向一级供应商递交材料信息，也只有将申明写在此栏中 OEM 才可看到。

At the Materials section under remarks by declaring the following statement.

“The formula of this material doesn't have any restricted or reportable substances according to GMW3059 and GADSL guidelines.” This is the preferred place for declaration. For Tier 2 suppliers, e.g., for a material supplier, if its MDS is to be used (uploaded) by other tier 1 suppliers, the declaration statement must be posted at the Materials section under remarks. It is the only way that OEM can view the declaration statement in the MDS created and submitted by Tier 1 suppliers.

也可将 Ford 或其他 OEM 的标准写在申明中，但 GMW3059 和 GADSL 必须提及。

You can put Ford and other OEM's standard name in this statement, but GMW3059 and GADSL must be spell out.

- 7 完整申报供应商及接受方信息，供应商信息包括公司名称，DUNS 代码（可选项），联系人姓名及电话，电子邮箱。接受方信息包括零件名，零件号，供应商代码等。供应商代码必须是零件的制造工厂的 DUNS 代码，正确的格式为 XX-XXX-XXXX，且保证该代码可以在 [www.dnb.com](http://www.dnb.com) 查询一致。

Declare supplier and recipient info, supplier info including Company, DUNS Number (Optional), Contact Person, Telephone No, E-mail, etc. Recipient info including Part No. Part name, Supplier Code. Supplier code should be the manufacturing DUNS No. and correct format should be XX-XXX-XXXX.

举例：供应商及联系人信息见下表

The screenshot shows the MDS system interface with the 'Supplier Data' tab selected. The 'Company' section is highlighted with a red box, showing details for SAIC General Motors Co., Ltd. The 'Contact Person' section is also highlighted with a red box, showing details for xia, Guanghong.

| Company           |                                                                     |
|-------------------|---------------------------------------------------------------------|
| Company           | SAIC General Motors Co., Ltd                                        |
| Company ID        | 75773                                                               |
| DUNS Number       | -                                                                   |
| Company Address   | Pudong Jinqiao Shenjiang Road 1500<br>201206 Shanghai<br>CN (China) |
| Organisation unit | SAIC General Motors Co., Ltd                                        |
| Company ID        | 75773                                                               |
| DUNS Number       | -                                                                   |
| Company Address   | Pudong Jinqiao Shenjiang Road 1500<br>201206 Shanghai<br>CN (China) |

| Contact Person |                            |
|----------------|----------------------------|
| Contact Person | xia, Guanghong             |
| E-Mail         | guanghong_xia@patac.com.cn |
| Telephone No.  | 021-50161262               |
| Fax No.        | -                          |

接受方信息见下表





MDS Functions Administration Help

MDS/Module Search Ingredients Supplier Data \* Recipient data \* Analysis MDS Request

Name 123456 | ID version 89717609 / 0.01 | Node ID 89717609 | Status Edit mode

Send Propose Release Internal Publish

**Details**

**Transfer Information**

Company SAIC General Motors Propulsion Systems [69064]  
Organisation unit -  
Recip. Status edit mode

Supplier Code XX-XXX-XXXX ?  
Name 123456 ?  
Part/Item No. AABBCDD ?

Legacy Spare Part ☐ ?  
Transmission/Check Date not available  
Forwarding allowed ☒

- 8 对于内饰零件材料中禁止使用酚醛树脂（CAS number 9003-35-4），甲醛（CAS number 50-00-0）。出现这两类材料或物质表单一律拒绝（电子器件中酚醛树脂的使用可豁免）  
Phenol formaldehyde polymer and formaldehyde are forbidden to use in interior parts and will be rejected. But electric and electronic parts are exempted.

- 9 系统使用语言为英文  
Language is English

## REVISION HISTORY

|                                        |                                                                                                                                                                                                                                                                                                                                       |            |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1.4                                    | Delete direct buy module                                                                                                                                                                                                                                                                                                              | 2008.12.9  |
| 1                                      | 新增要求                                                                                                                                                                                                                                                                                                                                  | 2010.11.10 |
| 2                                      | 新增要求                                                                                                                                                                                                                                                                                                                                  | 2010.11.10 |
| 9                                      | 增加供应商代码和 www.dnb.com 查询结果一致的要求                                                                                                                                                                                                                                                                                                        | 2010.11.10 |
| 8                                      | 增加对于内饰零件材料中禁止使用酚醛树脂的要求                                                                                                                                                                                                                                                                                                                | 2010.12    |
| 3                                      | 增加邮件通知要求                                                                                                                                                                                                                                                                                                                              | 2011.03.29 |
| 4                                      | 增加 IMDS 表单名称要求                                                                                                                                                                                                                                                                                                                        | 2011.03.29 |
| Scope:4<br>Check<br>Standard:<br>1、2、5 | 增加出口车型零件的 IMDS 提交要求，增加零件名称命名要求，增加 REC019、复合材料、过程物质/气态/液态物质的化学品存在形式要求，更新邮件通知要求，更新重量偏差要求<br>Add IMDS submission requirements for export vehicle parts, add IMDS name requirements, add REC019、components material、process/gas/liquid substance requirements, update email notification requirements, update mass deviation requirements | 2024.10    |