



Restricted and Reportable Substances

1 Scope

1.1 Material Description. This specification, and the associated CG4110, provides the GM requirements regarding substances whose use in materials and components have been identified by one or more governing bodies as being a potential risk to human health or the environment and/or are subject to current or anticipated regulatory restrictions.

1.1.1 The purpose of this specification is to facilitate compliance with current and future substance-related regulations. This standard does not supersede the responsibility of suppliers to comply with all laws and regulations.

1.1.2 Global Automotive Declarable Substance List (GADSL). The GADSL is incorporated into this specification and CG4110, by reference. The GADSL is the result of a global effort of representatives from automotive Original Equipment Manufacturers (OEM), automotive parts suppliers (tier suppliers) and chemical/plastics industries who have organized the Global Automotive Stakeholders Group (GASG). The GADSL only covers substances that are expected to be present in a material or part that remains in a vehicle at point of sale. The GADSL is available at www.gadsl.org.

1.2 Symbols. Not applicable.

1.3 Applicability. This specification applies to all materials and components specified by the purchaser including items where the design is held by the supplier, such as "black box" item.

1.4 Remarks. None.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

GMW3034 GMW3116 GMW14270 GMW14375

2.3 Additional References.

- CG4110 Substance List.
- Global Automotive Declarable Substance List (GADSL.org).
- Global Purchasing and Supply Chain General Terms and Conditions, Paragraph 14.
- GMW3059 website: www.gmw3059.com.
- IMDS System website: <http://www.mdssystem.com>.
- International Material Data System (IMDS) OEM Specific Instructions: <https://public.mdssystem.com/en/web/imds-public-pages/oem-specific-info>
- Statements of Requirements (SOR).

2.3.1 GMW Numbers and Titles: Provided for convenience for the reader.

- GMW3034 Absences of Hexavalent Chrome, Cr VI, in Coatings.
- GMW3116 Recyclability/Recoverability.
- GMW14270 Material Engineering Requirements.

- GMW14375 Summary Document for All Product Commodities.

3 Requirements

3.1. General. Many global jurisdictions have established laws and regulations that control the use of substances of concern (SoC) in vehicles, components and related automotive products. All components, materials and products supplied to GM must comply with these laws and regulations. A non-exhaustive list of these laws and regulations is found in CG4110. An example a SoC regulation applicable to the automotive industry is the European Union End of Vehicle Life Directive, EU 2000/53/EC, that requires materials and components of vehicles placed on the market after July 1, 2003, to be free of lead, mercury, cadmium, and hexavalent chromium, subject to certain exemptions. In addition, chemical restrictions found in general chemical laws such as EU Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Annex XVII and the Canadian Prohibition of Certain Toxic Substances Regulation also must be evaluated with respect to their applicability to automotive applications.

3.2 Reporting to IMDS. This specification requires all suppliers to GM (internal and external) to input the full material composition of vehicle components, materials and products supplied to GM, including any GMW3059 substances, to the proper GM Regional Account in the International Material Data System (IMDS). Refer to GM Global Purchasing and Supply Chain General Terms and Conditions and the GM IMDS Instruction Manual available in the IMDS system website referenced in 2.3.

Note: Paragraph 14 GM Global Purchasing and Supply Chain General Terms and Conditions.

3.2.1 Components Reporting. All substances listed on GADSL and/or CG4110 that are present in homogeneous materials in the supplied vehicle or aftermarket component, assembly, or accessory at levels over the listed threshold limits must be reported and cannot be hidden in the IMDS 10% not required to be reported content. Threshold limits are specified for substances classified as Declarable (D) and Prohibited (P). Unless otherwise noted, calculation and/or measurement of material content is to be made on a weight to weight percentage basis in each homogeneous material.

3.2.1.1 Production Part Approval Process (PPAP)/Supplier Quality Management System (SQMS).

International Material Data System (IMDS) submissions for GM vehicle and aftermarket components, assemblies, and accessories are to be submitted prior to non-saleable PPAP and an "accepted" IMDS submission is required for GM Supplier Quality (SQ) to issue full PPAP approval. If a part number is missing IMDS data or the correct manufacturing Data Universal Numbering System (DUNS) code (i.e., it does not match the DUNS code in SQMS for that part number), a notice will be issued to the supplier by GM Supplier Quality requiring the development of an action plan to resolve the issue.

Suppliers of GM directed-buy components must submit an IMDS material/substance disclosure both to GM and to their Tier 1 customer. For example, a Tier 2 supplier of a GM directed-buy part must submit IMDS information both to the proper GM IMDS account and to the IMDS account of the Tier 1 receiving the part.

Suppliers must submit their IMDS data to a GM IMDS account. GM IMDS accounts are listed in the GM IMDS instructions on the IMDS OEM specific instructions page: <https://public.mdssystem.com/en/web/imds-public-pages/oem-specific-info>.

3.2.2 Materials Reporting. Suppliers seeking approval of new GM Materials must provide an IMDS submission showing the composition of their materials as they will exist on the vehicle when placed into commerce (i.e., cured). The IMDS submission must be made to the General Motors NA Vehicle IMDS Account Number 5751 (regardless of region). Suppliers must submit evidence of a GM approved IMDS submission as part of their material certification packages to obtain approved status. A copy or screen shot of the first page of the IMDS Portable Document Format (PDF) file will be acceptable evidence. Detailed information specific to materials approval is available in the GM IMDS Instruction manual found at mdssystem.com and gmw3059.com websites.

Suppliers must update their IMDS submissions as soon as possible after any material composition change or when required due to a change to this GMW, GADSL or CG4110.

Verify the timing requirements and format requirements for your submission with the appropriate GM Materials Engineering or Vehicle Systems Paint Materials contact.

3.2.3 Biocide Reporting. Suppliers must provide biocide information via IMDS Chemistry Manager, if requested. Refer to CG4110 entries for biocides for further detail.

3.2.4 Recycled Content Reporting. Due to increasing need to identify the use of recyclate in vehicles, suppliers are required to report the recycled content of their parts in their IMDS submissions. See Appendix A for additional detail.

GM acceptance of a supplier IMDS submission which includes recycled content reporting does not imply that GM has approved the use of recycled content for that specific part/application. The supplier is responsible to work with the GM Design Engineer and/or GM Materials Engineer to verify that it is acceptable to use recycled content during part development.

Note: For information about the use of recyclate in vehicle components, refer to GMW3116.

3.2.5 Exceptions to IMDS Reporting.

3.2.5.1 Substances not present in a product put to commerce, but used during production processes in the supply chain, shall not be reported using IMDS.

3.2.5.1.1 Safety Data Sheets (SDS) for chemicals supplied to GM for internal production processes, must be submitted to GM Manufacturing in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific SDS requirements.

3.2.5.1.2 Process chemicals and mixtures supplied to GM facilities are reviewed and approved via the GM Productive Material Review (PMR_v) process (for GMNA) and/or through plant Hazardous Material Control Committees (HMCC).

3.3. Acceptance/Rejection of Material Data Sheets and Waivers. The General Motors Substances of Concern (SoC) plan is to reject substances or applications globally once they have been restricted by a Regional regulation. Therefore, GM will reject all Material Data Sheets containing substances or application codes that are prohibited in any major region (marked as "P" or Declarable/Prohibited "(D/P)" on GADSL and/or CG4110). In situations where the regionally-prohibited SoC can be used legally in another region or application, and the immediate removal of the SoC is impracticable, suppliers are required to submit a waiver application outlining the plan and timing for phasing out of the SoC or application. Unless otherwise directed, this phase-out is to occur as soon as possible but no later than during the next major model year enhancement or new vehicle, whichever comes first. The waiver form is not an authorization for the change of a part or component. Any changes to parts or components must be authorized through the GM Engineering Work Order (EWO) process. (See the Waiver Form and Waiver Form Instructions tabs of CG4110.) No waiver will be approved if it creates a condition of non-compliance with legal requirements.

3.4 Requirements on Delivery. Independent of this regulation, the supplier bears the responsibility for ensuring that materials and components delivered meet the relevant legislations and regulations of the countries to which they are supplied. The requirements defined in this specification apply for all new and carryover materials and components supplied, unless otherwise specified on the drawing. These requirements also apply to resourced or redesigned materials and components. Also, refer to GMW14270 and GMW14375 standard notes for GMW3059 Restricted and Reportable Substances on the drawing and Statements of Requirements (SOR).

3.5 Testing.

3.5.1 Government-required testing. If a government regulation requires testing to a SoC standard, these tests must be performed by suppliers using the methods specified in the regulation, as required.

3.5.2 Other testing. Questions regarding the presence of these substances can be resolved by using government-required test methods and/or laboratories, or where none exist, by using the test methods or specifications listed in this GMW and/or CG4110, (e.g., GMW3034 for hexavalent chromium) or in other GMWs or by another agreed to appropriate accepted analytical method.

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.