IMDS JUAREZ PROCESS SUPPLIERS

Table of contents

1. Purpose

The purpose of this procedure is to describe the Stoneridge standards and processes applicable to IMDS management. It complements the official standards contained in the IMDS User Manual and IMDS Recommendations.

To comply with legal requirements on materials/substances [EU End-of-Life Vehicles Directive, REACH, etc.], all suppliers must provide information on materials used in products (raw materials, components, assemblies, final product).

The web based IMDS was developed on behalf of several automotive manufacturers with the purpose of enabling the collection of relevant information on material/substance content in parts and materials along the automotive supply chain.

2. Scope

The **International Material Data System** (IMDS) is the standard material reporting tool used by the automotive industry, including the whole supply chain actors, to ensure that the vehicles put on the market comply with the regulations related to materials and substances. Stoneridge is part of this information exchange:

- Stoneridge receives **Material Data Sheets** (Incoming MDS) from suppliers.
- Stoneridge reviews and accepts or rejects the information.
- Stoneridge works together with suppliers to have an accepted IMDS.

This procedure applies to suppliers that submit PPAP to the ISQ group.

3. Definitions

All relevant definitions are described in IMDS User Manual.

Stoneridge Specific:

Banned, Restricted, Declarable Substances List compiles the worldwide restrictions of use of chemical substances in the automotive industry (parts and/or processes) as well as by regulation restrictions.

Part: Means by default the objects that can have an MDS: Material, Semi-component, Component, Assembly

Production Part Approval Process (PPAP) – documentation package with evidence showing that a purchased part meets Stoneridge requirements.

IMDS ID – unique identifier of an MDS, assigned by IMDS.

4. Reference documents

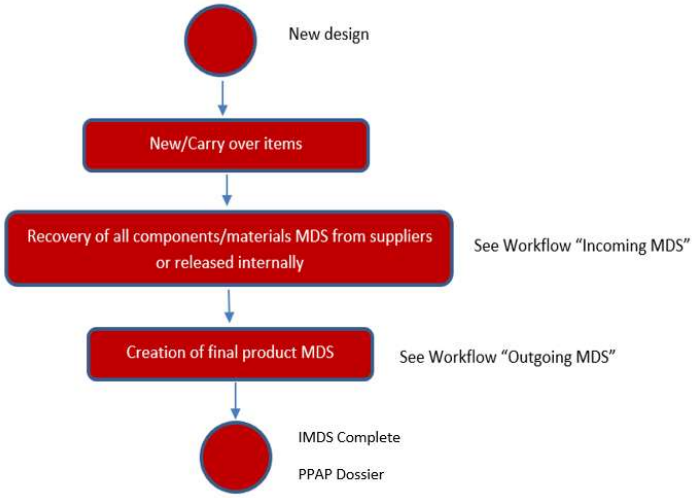
Ref	*Document ID*	*Type*	*Title*
IMDS 001	www.mdsystem.com	General Rules	IMDS General Rules and Guidelines
CAMDS	www.camds.org.cn	General Rules	China Automotive Materials Declarable System (CAMDS)
GADSL	*www.gadsl.org*	General Rules	Global Automotive Declarable Substance List

5. Procedure

Within the IMDS Portal, Stoneridge is structured into Organizational Units (only applies to Stoneridge Juarez) as follows:

- Joseph Pollak Corporation [11899] Control Devices Division
- Pollak, A Stoneridge Company [2724] Control Devices Division
- Stoneridge TED [67439] Electronics Division

5.1. GENERAL WORKFLOW



Incoming IMDS Procedure

The incoming MDS process is initiated for 100% of purchased parts:

- Materials
- Mechanical / Electromechanical components and assemblies
- Electronic components and assemblies
- PCB / PCBA

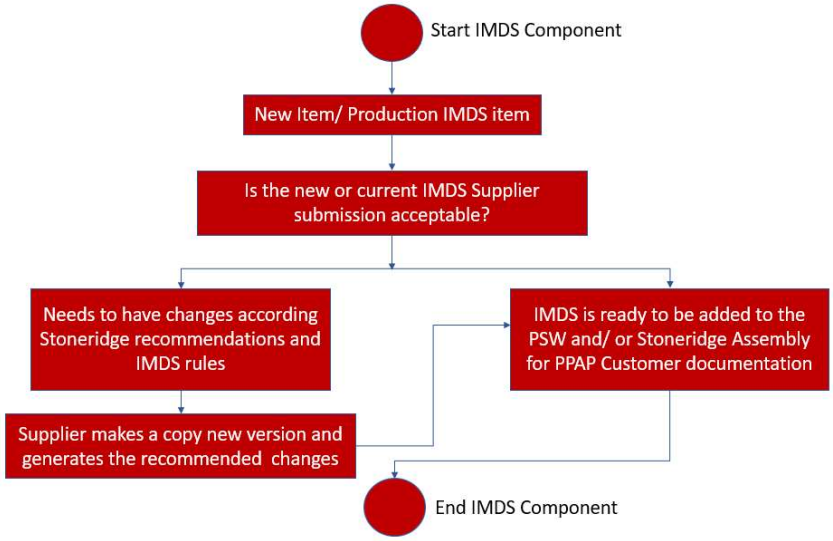
Concerning materials, the following rules apply:

- When available, MDS published by material suppliers shall be preferred

- Only raw materials suppliers have the right to create material MDS. Therefore, creation of material MDS by Stoneridge (in place of supplier) is forbidden, except when Stoneridge is the real raw material supplier.

- MDS must represent materials as they will be in vehicle. Then, for materials internally processed (e.g., varnishes, thermosets before polymerization), the material MDS shall correspond to the chemical composition and physical state as present in the product delivered to customer

5.2. WORKFLOW FOR INCOMING IMDS



For all purchased parts is mandatory have IMDS of all, from 100% suppliers.

If the IMDS is rejected or has been changed by supplier, the supplier must generate a copy new version of the accepted IMDS, if it generates a new IMDS id it will be rejected.

The IMDS should have the Stoneridge part number information as well as the description.

For electronic components, all supplier components must be submitted, Recommendation 019 is no longer valid (August 2020) with the same guidelines as for mechanical components.

6. IMDS SUPPLIER CHECK LIST

Items	All components
Prerequisite	Must be available: - All supplier MDS in compliance with serial BOM (and provided by suppliers nominated for the specific project) - In case of a new revision of an existing MDS, a new version copy must be generated
Step 1	Ingredient's data: Stoneridge data (part number, BOMs). Tree Structure in compliance with BOM by using approved supplier MDS (or supplier published MDS or internally released MDS, see Note below). If no data, no empty field
Step 2	Stoneridge checks before submission: Weight: measured with real final component Polymeric part marking: no empty area Recyclate: no empty area Execute check: check result must be empty Materials according to supplier drawing, PSW, material certificate

Table 1: Criteria of acceptance for Substances Content

7. MANDATORY INFORMATION IN IMDS

7.1. INCOMING IMDS

Before acceptance by Stoneridge, Incoming MDS content must be checked regarding:

Check 1: IMDS Recommendation 001 and other applicable IMDS Recommendations, in addition to IMDS rules. This check is not described in this procedure as it is not Stoneridge specific.

Check 2: Mandatory Incoming Information related to recipient data, supplier data and ingredients (Table2)

Check 3: Substances Content in material ingredients (Table 3)

	Mandatory items to be checked	Materials Mechanical / Electromechanical components	Electronic components PCB / PCBA
Recipient Data	Org Unit	Org Unit of Location that is delivered and that will deliver final customer & OEM Use of Pollak, A Stoneridge Company [2724] Control Devices Division Org Unit is forbidden	
	Recipient Status	"Internally Released" or "Handshake" modes are acceptable "Edit" mode is not acceptable	
	Name	In compliance with Stoneridge drawing or specification	
	Part / Item No		
	Drawing No		
	Legacy Spare Part	Provided by Stoneridge	
	Forwarding allowed	Must be yes	
	Drawing Change level	Latest released	
Supplier Data	Contact person	Valid email is mandatory Phone number is recommended	
Ingredients	Preliminary MDS	Must be no, unless specific Stoneridge request	
	Measured Weight	In agreement with Stoneridge/supplier drawing	As per supplier drawing or specification.

		and IMDS tolerances. Not applicable for Raw Materials	
	Materials	In agreement with Stoneridge drawing (supplier manufacturer) or supplier drawing/data sheet (supplier designer)	When applicable, in agreement with supplier drawing/data sheet (supplier designer)
		Common Information: published MDS (IMDS-Committee, Stahl und Eisen Liste, Raw Material suppliers, etc.) shall be used preferably as per IMDS Rec.001	
	Recyclate	It is mandatory to answer it and having more than 20% is not allowed.	

Table 2 Criteria of acceptance for administrative information

If any item fails to meet any of the above group of requirements, then the data will be rejected prior to go to the further check and incoming MDS re-submission is required.

8. SUBSTANCES CONTENT

The control of compliance is based on a 4 steps analysis of the ingredients of the Incoming MDS, each step corresponding to a check of compliance according to one piece of legislation or customer requirement.

The MDS is approved when all the checks are positive.

	Applicable document	Applicable Level in BOM	Acceptance threshold	Action in case of check failed	Possible deviation
Step 1	REACH Annex XIV	Flat BOM	0wt%	Action plan to phase out the substance	Yes, if: -the substance has been authorized by the EU-COM -the IMDS Manager

					has given the approval
Step 2	ELV Annex II	Homogeneous Material	Acc to list of exemptions		No
Step 3	REACH Candidate List	Article	0.1wt% in smallest article		Yes, if in agreement with customer specification

Table 3: Criteria of acceptance for Substances Content

The material data for an incoming MDS is approved once it meets all the above requirements