Hyundai Motor · Kia IMDS Guidance

Version 10.0

Revision	Korean	English	Changes
IMDS 3.1	2005.07.15	2006.02.21	
IMDS 4.0	2006.06.01	2006.05.17	
IMDS 5.0	2007.05.28	-	
IMDS 6.0	2008.07.09	-	
IMDS 7.0	2009.09.01	-	
IMDS 7.1	2010.06.01	-	
IMDS 7.1-1	2011.04.15	-	
IMDS 8.0	2012.06.22	2012.06.22	
IMDS 8.1	2013.05.27	2013.05.27	Recipient, IMDS service center
IMDS 8.2	2014.05.14	2014.05.14	Applied plant, Recipient, Change terms
IMDS 8.3	2015.06.15	-	Recipient, Preliminary MDS, Norm/standard
IMDS 8.4	2017.5.24	2018.3.9	Recipient, weight allowance, EO information, etc.
IMDS 8.5	2018.7.23	2018.7.23	Add recipient (HMI)
IMDS 8.6	2018.12.4	2018.12.4	Add recipient (HMB)
IMDS 8.7	2019.1.10	2019.1.10	Add recipient (KMI)
IMDS 9.0	2020.2.26	2020.2.26	Add recipient (Subsidiary materials) etc.
IMDS 10.0	2021.6.7	2021.6.7	Add recipient (HMMI)(HMMR), Change company name, Enter Material Recycling Information, etc

Hyundai · Kia IMDS(International Material Data System) Guidance is the minimum requirement when MDS (Material Data Sheet) is created and submitted by suppliers. It is used as the acceptance criteria for supplier MDS. Suppliers sending MDS are responsible for disadvantage caused from noncompliance with this guidance. The current version of this guidance can be downloaded in <u>IMDS public page</u> and is prohibited to distribute this guide with arbitrary modification.



Summary

- 1. Please be well-informed of basic IMDS instructions from following documents before reading this guidance
 - 1) Information supplied from DXC company
 - General system instruction
 - : <u>http://mdsystem.com</u> → See '<u>Online user manual</u>' in System Login screen
 - How to create a material MDS
 - : <u>http://mdsystem.com</u> → See '<u>How to create a material MDS</u>' in System Login

screen

- How to create a component MDS
 - : <u>http://mdsystem.com</u> → See '<u>How to create a component MDS</u>' in System Login

screen

- IMDS Recommendations
 - : <u>http://mdsystem.com</u> → System Login → See 'Recommendation' of the 'Help' in main screen
- 2) IMDS training course
 - 1 day IMDS training course is running by DXC who manage and support IMDS. Please request training if needed in <u>IMDS homepage</u>.

3) See the training movies provided by Hyundai · Kia in order to do basic instruction during

very short time : <u>http://mdsystem.com</u> \rightarrow IMDS Information Pages \rightarrow Help \rightarrow OEM Specific Info. \rightarrow <u>Hyundai Motor and Kia</u>

2. This guidance is written based on IMDS Recommendations. If guidance and IMDS Recommendations are mismatched, please follow this guidance.

3. MDS recipient should be based on corresponding vehicle manufacturing plant. MDS sent

Company	Plant	Recipient [Org. unit ID]
	 All parts produced in Korea plants All parts supplied to Czech plant (HMMC) All parts supplied to Turkey plant (HAOS) 	HYUNDAI MOTOR COMPANY [71405]
	 Local parts supplied to India Plant (HMI) GKD * parts supplied to India Plant (HMI) 	HYUNDAI MOTOR INDIA (HMI) [192766]
, HMC	Local parts supplied to Alabama Plant (HMMA)GKD parts supplied to Alabama Plant (HMMA)	HYUNDAI MOTOR ALABAMA (HMMA) [119671]
(passenger car)	Local parts supplied to Brazil Plant (HMB)GKD parts supplied to Brazil Plant (HMB)	HYUNDAI MOTOR BRAZIL (HMB) [128948]
	Local parts supplied to Russia Plant (HMMR**)GKD parts supplied to Russia Plant(HMMR)	HYUNDAI MOTOR RUSSIA (HMMR) [128949]
	 Local parts supplied to Indonesia Plant (HMMI) GKD parts supplied to Indonesia Plant (HMMI) 	HYUNDAI MOTOR MANUFACTURING INDONESIA (HMMI) [225598]
	All parts produced in Korea plantsAll parts supplied to Slovakia Plant (KIA)	KIA COPRPORATION [71406]
KIA	Local parts supplied to Georgia Plant (KaGA)GKD parts supplied to Georgia Plant (KaGA)	Kia GEORGIA (KaGA) [119673]
car)	Local parts supplied to Mexico Plant (KMX)GKD parts supplied to Mexico Plant (KMX)	Kia México S.A. de C.V (KMX) [175429]
	Local parts supplied to India Plant (KIN)GKD parts supplied to India Plant (KIN)	KIA India Private Limited (KIN) [198329]
Commercial Vehicle	All parts applied to commercial vehicles	HMC/KIA COMMERCIAL VEHICLE [155405]
Special	All parts supplied to HMC Special Vehicle	HMC SPECIAL VEHICLE [155406]
Vehicle	All parts supplied to KIA Special Vehicle	KIA SPECIAL VEHICLE [156364]
-	 Subsidiary materials applied to vehicles produced in Hyundai · Kia 	HMC/KIA SUBSIDIARY MATERIALS [205676]
-	• Development parts of the ESIR stage of all parts.	HMC/KIA ESIR [214102]

* Parts supplied from other countries besides Korea to local plants

(ex : Part is produced in China and supplied to HMI)

** Please input the Russian factory when requested.

- 4. Please call to followings for any questions about system
 - Hyundai Motor/Kia (quiries about the reason for refusal, Hyundai Kia Data Approval Standards, etc.)

Work	Contact person	Phone Number	Email
IMDS	Park, Hye Young	+82 31 8036 3579	phy1024@hyundai.com

- ISIR system regarding IMDS

Work	Contact person	Phone Number	Email
ISIR	Lee, Ji Ae	+82 2 801-4321	leejiae@hyundai-autoever.com

- IMDS Service Center (access authority / instructions / IMDS Recommendations etc)

Region	Service Hour (Mon~Fri, local time)	Phone Number	Email
Korea	9:00am - 05:00pm (GMT+9)	+82 2 6138 3661	_imdsk-helpdesk@dxc.com
Europe (English support)	8:00am - 4:30pm (GMT+1)	+36 1 778 9821	<u>imds-helpdesk-</u> emea@dxc.com
Europe (French, Germany support)	8 a.m. ~ 4.30 p.m. (GMT+1)	+33 1 57 32 4856 or +36 1 778 9821	<u>imds-helpdesk-</u> emea@dxc.com
North America	8:00am - 5:00pm (CST)	+1 844 650 4217	<u>imds-helpdesk-</u> english@dxc.com
Japan	9:00am - 5:00pm (GMT+9)	+81 3 4530 9270	jpimds-helpdesk@dxc.com
China	9:30am - 5:00pm BST(GMT+8)	(+86) 021 60465988	<u>imds-helpdesk-</u> <u>china@dxc.com</u>

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※ References

<u>1. How to re-send accepted MDS with the same ID and version-up to the different recipient</u>

2. How to change Contact Person

1. 1 Backgrounds of IMDS (International Material Data System)

It is developed and operated by automobile manufacturer and solution company, DXC in order to comply with global chemical regulations, and it secures and controls chemicals as well as weight information of automobile parts through supply chain (raw material supplier \rightarrow tier 2nd \rightarrow tier 1st



1.2 IMDS Access Authority Request

- If your company access to IMDS for the first time,
- : You can take the access authority through the online registration in web-page below.
 - ※ <u>http://mdsystem.com</u> → New to IMDS → 'Company Registration' → follow registration procedure after click '<u>Online Registration</u>'
- If Your company already registered to IMDS, request access authority to your client manager
 ※ Please contact with IMDS Service Center for your company registration
 (IMDS Service Center : refer to '<u>Summary</u>' of this guidance for inquiry)

1.3 How to access IMDS

http://mdsystem.com \rightarrow click 'Login' \rightarrow Input User ID and Password \rightarrow After change password (8~12 digits combining alphabet and number), the service is available

1.4 Timing of Sending MDS and Application Scope

- Target parts of ESIR : MDS of the parts should be received and accepted 3 months prior to Pilot stage.

※ MDS (Material Data Sheet) : Unit of IMDS data

- Without specified, MDS should be received and accepted 1 month prior to M stage.

- If specifications of part are decided after M stage, MDS of the parts should be input right after specification decision.

- It takes 1 day to download MDS from IMDS on-line system to the internal system. Therefore it is not possible to approve MDS right after receiving it.

- Please keep in mind it takes $2 \sim 4$ days to process MDS approval after receiving it

Category	Application Scope
Vehicle Type and plants	All of Passenger Car, truck and commercial cars produced in H/KMC - HMC : all plants in Korea, HMMC, HAOS, HMI, HMMA, HMB, HMMI,HMMR - KIA : all plants in Korea, KaGA, KIN, KMX, ※ IMDS does not applied to vehicles produced in China plants ※ It can be changed according to global policy of HMC / KIA
Unit of input	MDS should be created and sent as end-item which supplies to HMC/KIA plants.
Target Parts	 All the parts and subsidiary materials applied to vehicle When there are change of material, chemicals and its contents, and weight of part (over 3% of total weight), approved MDS should be revised and re-approved. When HMC/KIA request MDS additionally to comply with various environmental regulations
Supplier	 Raw material supplier : send MDS to tier n Tier 2/3/4/n : send MDS to upper level through supply chain Tier 1 : Creating MDS after collecting from lower level supply chain send it to HMC/KIA How to input Assembly part including direct purchased part ** Input all the data except direct purchased part, but follows our rule regarding direct purchased part (refer to 2.5.2)

1.5 Application scope

1.6 Input Conformity

1.6.1 IMDS Recommendations

- Since IMDS recomendations were written by mutual agreement between IMDS Steering Committee and members and are common operation standards for all automobile manufacturers worldwide who are operating IMDS, users should conform to them with fully understanding when writing MDS in order not to cause any disadvantage due to input error.
- You can find them <u>http://mdsystem.com</u> \rightarrow log in \rightarrow help \rightarrow Recommendation.

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1.6.2 Hyundai • Kia IMDS Guidance

- Each car manufacturer can request different rules in the Recommendations or additional rules besides these Recommendations depending on their internal situation.
 - All of the suppliers sending MDS to HMC / KIA should follow 'Hyundai · Kia IMDS Guidance'.
- Guidance of all automobile manufacturers including Hyundai, Kia can be inquired from http://mdsystem.com > IMDS Information pages > Help > <u>OEM specific information</u>

1.7 Understanding Basic Property of MDS

1.7.1 How to Express Elements of Part as Characters and Tree Structure

① Parts in IMDS are expressed as icon as following and should be observed when creating MDS

Category	Term Description	lcon	Sample
Component	Define assembly part or sub-part consisting assembly part		
Semi-component	Used in semi-product need to proceed additional process step (cutting, stamping). The addition of dimensional data (kg/m3, kg/m, kg/m2) is possible.	0	 ✓ 420.0g STEEL ▲ 12.0 - 13.0% Carbon ▲ 5.0 - 6.0% Manganese ▲ 82.0% Iron ▽ Ø 1× CHROMATED COATING
Material	Material composing components and is consisted of basic substances	•	 ✓ ● 0.1g CHORMATED FILM YELLOW ✓ • 0.0 - 0.0% CHROMATED FI ▲ 85.0% Basic chromic sulfate
Basic substance	Chemicals composing materials and minimum unit with material characteristics		 10.0% Zinc (metal) 5.0% Misc., not to declare

② Part assembly structure is expressed as tree structure in IMDS and should be conform to the actual part composition when creating MDS.



③ If the same sub part is applied to different parent parts, it should be composed to its parent part.



1. Check Point before creating MDS

④ MDS should be created in conforming with part composition, quantitiy, material and surface treatment in drawing



1.7.2 Understanding Part and Data Flow through supplier chains

Check part and data flow through tier 1/2/3/4

- Classfying as own parts and direct purchased parts
- Figuring out responsible person of each suppliers and data trasmission and reception path

1.7.3 Measuring Part Weight and Analysis of Substances in Material

- Figure out the weight of assembly and sub-parts, and reflect them to data sheet
- Figure out all materials composing parts (major material, additives, other fillers and stiffners etc) and reflecting results to data sheet after analyzing substances at each material through authorized analysis agency or own analysis
- Published data in IMDS can be used, but material composition in published data should be conform to your material composition
 - ※ Reliable data published from : IMDS Committee (company ID : 423), IMDS-Committee/ILI Metals (company ID : 18986), Stahl und Eisen Liste (company ID : 313)
 - % As determined by the IMDS Steering Committee, IMDS Guidelines 019 from 2021.5.19.

Use of (IMDS Recommendation 019) is prohibited. Accordingly, the relevant public data (ZVEI-Rec019,

Enterprise ID: 102677) is not available. (Modify existing data)

1.8 Threshold of prohibited substances / material marking

Substances prohibited or restricted by MS201-02 are not allowed to use.

If they are existed, check whether it is below the threshold or allowed followed by exceptional use in MS201-02

- Check material marking for plastic and rubber materials followed by MS201-01..

* MS201-01 : Hyundai Motor Kia Material standard for 'Marking of materials for automotive

^{parts'} 1.9 IMDS – ISIR Work Flow

MDS for ISIR target parts (developed part or changed part) should be approved according to following work flow and registered to Partner system.

* MDS which is sent to wrong recipient or not approved is not valid



ISIR Final Approval

2.1 ID / Version Management

- What is ID / Version?

ID is the number created automatically when creating MDS and Version means change history

of data sheet. The same ID should be used for the same part number.

e	Name 🛆 🗸	ID /	ersion	Part/Item No., Item- /MatNo., Material No.	transmitted	from comp. (Org Unit) [ID-No.]	Status	last status changed
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129/6	25800-M5000	2/23/2018	INZI CONTROLS CO., LTD. [25001]	accepted	2/26/2018
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129 / 5	25800-M5000	2/21/2018	INZI CONTROLS CO., LTD. [25001]	rejected	2/23/2018
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129 / 4	25800-M5000	1/17/2018	INZI CONTROLS CO., LTD. [25001]	accepted	1/18/2018
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129 / 3	25800-M5000	1/15/2018	INZI CONTROLS CO., LTD. [25001]	rejected	1/16/2018
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129 / 2	25800-M5000	1/10/2018	INZI CONTROLS CO., LTD. [25001]	rejected	1/11/2018
	THERMAL MANAGEMENT SYSTEM-MODL	7105	5129 1	25800-M5000	1/4/2018	INZI CONTROLS CO., LTD. [25001]	cancelled by sender	1/10/2018
THERMAL MANAGEMENT SYSTEM-MODI VIDSA5128 L1 25800-M5000 1/4/2018 INZI CONTROLS CO.,LTD. [25001] cancelled by sender 1/10/2018 ID Version								

[ID / Version]

- MDS sent to HMC / KIA should be conformed to following rules.

• Creating data sheet with new ID (Example : $114918315/0.01 \rightarrow 114918316/0.01$)

: In case of the first IMDS input part, new developed part, changed part number of part

• Creating data sheet with the same ID with already accepted MDS

 $(Example : 114918315/0.01 \rightarrow 114918315/0.02)$

: When already created MDS is changed (sub part added/deleted, material change, substance

or

substance content change, color change, total weight change of +-3%)

X Even approved MDS should be reapproved after reflecting changes in case of the above



[ID / Version management rules when creating data sheet]

2. 2 Description and Part / Item No.

- Description field should be 'conform' or 'similar' to part name in HMC / KIA BOM (Bill of Materials) and be written with English capital letter
- Part/Item No. should be 'matched with the part number in HMC/KIA BOM.
- Also, part name and part number of sub-component should be matched with HMC/KIA. But, supplier part number and part name can be used if they are not existed in HMC/KIA BOM

Description

- Use the same or similar part name to HMC / KIA BOM
- Part name should be written with English capital letter

Description	Part name in HMC/KIA BOM	Result
ASM-KIA-MG	SEAT BELT ASSY-FR P/T 3PT, LH	Reject
I.S.C ACTUATOR	IDLE SPEED CTL ACTUATOR	Accept
i.s.c actuator	Idle speed ctl actuator	Reject

🗠 Common Info	rmation	
	Туре	Component (received MDS)
	ID / Version	725614714 / 0.01
	Node ID	725614714
	Node count	24
	MDS Supplier	ASUNG PLATECH CO.LTD
ſ	Description	CLAMP SPARE TIRE
	Part/Item No.	62850-3X000
Pre	eliminary MDS	No
Dates		
	Create Date	3/2/2018 🕜
	Release Date r	not available 🥜
	Release Date	not available 🕜 3/2/2018 🕐 📑 Recommendation
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Part/Item No.

- Should be followed to the typical format of HMC / KIA BOM
 ※ HMC / KIA part No. format : 12345-67890 insert '-' between number 5 digit and 5 digit.
 - No spacing between numbers
- If same part number but differnt color only, adding color mark with alphabet combination or alphabet-number combination after part number is possible.
 Example) 56900-3L100WK , 37160-2G000T3
- If part number is different for the same part name , each part number should be transmitted separately.

Example) 88870/88880-1E000 \rightarrow 88870-1E000 (transmit), 88880-1E000 (transmit)

- For the directly supplied materials such as lubricant, fuel, paint, sealant, etc, Vaatz code of product as Part /Item No. can be available.

2. 3 Deviation between measured weight and calculated weight

- Weight deviation of component should be satisfied with the below table for component.

Deviation = $\left(\frac{\text{Measured weight per item} - \text{Calculated weight per item}}{\text{Measured weight per item}}\right) \times 100$

Component weight (X)	Max deviation (%)
X<1g	100
1g ≤ X < 100g	10
100g ≤ X < 1kg	5
1kg ≤ X < 10kg	2
10kg ≤ X < 100kg	1
X ≥ 100kg	0.5

Details			
✓ Common Information			
Туре	Component (own MDS)		
ID / Version	722410467 / 0.01		
Node ID	722410467		
Node count	1		
MDS Supplier	HYUNDAI KIA MOTOR COMPANY		
Description	Component_722410467 *		
Part/Item No.			
Preliminary MDS			
✓ Dates			
Create Date 2/19/2018			
Check/Release Date r	Check/Release Date not available 🕜 📑 Recommendation		
Amounts and Weights			
Measured weight per item 0.0 g 💌 *			
Calculated weight per item	0.0 g		
Deviation	0.0%		

2. 4 Preliminary MDS

- HMC/KIA does not use 'Preliminary MDS' and it does not need to be checked.

* Preliminary MDS : MDS created before detailed development stage in order to calculate a recyclability. Normally it does not have the detailed information of chemical composition.

KIM, YOUNGCHUL O HYUNDAI KIA MOTOR COMPANY [71404]	
MDS - Functions - Administration - Help -	
MDS/Module Search Ingredients *	Supplier Data * Recipient data * Analysis MDS Request
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Catest MDS	Details
	Common Information
	Type Component (own MDS)
	ID / Version 722410467 / 0.01
	Node ID 722410467
	MODE COUNT 1 MDS Supplier HYUNDAI KIA MOTOR COMPANY
	Description test MDS *
	Part/Item No.
	Preliminary MDS Do not check this box
	⊻Dates
	Create Date 2/19/2018 🕜
	Check/Release Date not available 🕜 🔓 Recommendation
	Amounts and Weights
	Measured weight per item 0.0 g 💌 *
	Calculated weight per item 0.0 g
	Deviation 0.0% 🕜

2.5 Material Classification Selection

Since material classification is the key for material marking, application codes of heavy metals and recycle information, it should be properly selected according to material characteristics. (refer to below material content condition table at each material classification)

2.5.1 Chemical Content Condition for each Material Classification

- It should satisfy chemical content condition according to material classification

Classif icatio n No.	Classification Name Must contain [*]		CAS No. or Substance Group
1.1.1	unalloyed, low alloyed	Iron (Fe) ≥ 65%	7439-89-6
1.1.2	highly alloyed	Iron (Fe) ≥ 30%	7439-89-6
1.2.1	Cast iron with lamellar graphite / tempered cast iron	Iron (Fe) ≥ 70%	7439-89-6
1.2.2	Cast iron with nodular graphite / vermicular cast iron	Iron (Fe) ≥ 55%	7439-89-6
1.2.3	Highly alloyed cast iron	Iron (Fe) ≥ 14%	7439-89-6
2.1.1	Cast aluminum alloys	Aluminum (Al) ≥ 50%	7429-90-5
2.1.2	Wrought aluminum alloys	Aluminum (Al) ≥ 50%	7429-90-5
2.2.1	Cast magnesium alloys	Sum of Mg and Magnesium powder (stabilized) \geq 50%	Chk : Magnesium
2.2.2	Wrought magnesium alloys	Sum of Mg and Magnesium powder (stabilized) \geq 50%	Chk : Magnesium
2.3	Titanium and titanium alloys	Titanium (Ti) ≥ 50%	7440-32-6
3.1	Copper (e.g. copper amounts in cable harnesses)	Copper (Cu) ≥ 93%	7440-50-8
3.2	Copper alloys	Copper (Cu) ≥ 48%	7440-50-8
3.3	Zinc alloys	Sum of Zinc substances \geq 70%	Chk : Zinc
3.4	Nickel alloys	Nickel (Ni) ≥ 50%	7440-02-0
3.5	Lead	Lead (Pb) ≥ 50%	7439-92-1

* Corresponding chemicals should be contained more than written content.

(Ex) Material Class, 1.1 Steels / cast steel / sintered steel should contain over 50% of iron (Fe).

2. How to create MDS

<Continue>

Classif icatio n No.	Classification Name	Must contain [*]	CAS No. or Substance Group
4.1	Platinum / rhodium	Sum of platinum and rhodium \geq 50%	Chk: Platinum / Rhodium
4.2	Other special metals	Other metals or their sum \ge 50%	Special metals
5.1.a	filled Thermoplastics	Sum of substances containing …poly… in their names excluding sum of Basic Duromers ≥ 5%	Chk: Named *poly* w/o duromers
5.1.b	unfilled Thermoplastics	Sum of substances containing polyin their names excluding sum of Basic Duromers ≥ 5%	Chk: Named *poly* w/o duromers
5.2	Thermoplastic elastomers	Sum of substances containing polyin their names excluding sum of Basic Duromers ≥ 5%	Chk: Named *poly* w/o duromer
5.3	Elastomers / elastomeric compounds	Sum of Basic Rubbers or substances containingpoly in their names excluding Basic Polymers and Basic Duromers and ≥ 5%	Chk: Named *poly* + elastomer w/o polym./durom.
5.4.1	PolyurethaneSum of substances containingpoly in their names ≥ 5%		Chk: Named *poly*
5.4.2	4.2 Unsaturated polyester Sum of substances containing in their names excluding sum o Polymers ≥ 5%		Chk: Named *poly* w/o polymers
5.4.3	5.4.3Other duromersSum of substances containing in their names excluding sum of Polymers ≥ 5%		Chk: Named *poly* w/o polymers
5.5	Polymeric compounds (e.g. inseparable laminated trim parts)	Unconditional	
5.5.1	Plastics (in polymeric compounds)	Sum of substances containing …poly… in their names ≥ 5%	Chk: Named *poly*
6	Process polymers	Unconditional	
6.1	Lacquers	Sum of Basic Duromer orpoly \geq 5%	Chk: Named *poly* and duromers

2.5.2 Chemical Non-Content Condition for each Material Classification

- When creating data sheet, following selected material classification should satisfy corresponding chemical non-content condition

Classif ication No.	Material Classification Name	Must not contain [*]	CAS No. or Substance Group
5.5.2	Textiles (in polymeric compounds)	Sum of substances corresponding to material classification $1 \sim 4 \ge 95\%$	Chk: Classification 1-4
6.2	Adhesives, , sealants	Sum of substances corresponding to material classification $1 \sim 4 \ge 95\%$	Chk: Classification 1-4
6.3 Underseal		Sum of substances corresponding to material classification $1 \sim 4 \ge 95\%$	Chk: Classification 1-4
7.1Modified organic natural materials (e.g. leather, wood, cardboard, c		Sum of substances corresponding to material classification $1 \sim 6 \ge 50\%$	Chk: Classification 1-6
7.2Ceramics / glassSum of substances corresponding to material classification $1 \sim 4 \ge 80\%$		Chk: Classification 1-4	
9.1 Fuels		Sum of substances corresponding to material classification $1 \sim 6 \ge 50\%$	Chk: Classification 1-6
9.2	Lubricants	Sum of substances corresponding to material classification $1 \sim 4 \ge 50\%$	Chk: Classification 1-4
9.3 Brake fluid		Sum of substances corresponding to material classification 1~4 ≥ 50%	Chk: Classification 1-4
9.4 Coolant / other glycols		Sum of substances corresponding to material classification $1 \sim 4 \ge 50\%$	Chk: Classification 1-4
9.5 Refrigerant		Sum of substances corresponding to material classification $1 \sim 6 \geq 50\%$	Chk: Classification 1-6
9.6 Washing water, battery acids Sum or to mat		Sum of substances corresponding to material classification $1 \sim 6 \ge 50\%$	Chk: Classification 1-6
9.7	Preservative	Sum of substances corresponding to material classification $1 \sim 4 \ge 50\%$	Chk: Classification 1-4
9.8	Other fuels and auxiliary means	Sum of substances corresponding to material classification $1 \sim 4 \ge 50\%$	Chk: Classification 1-4

* Corresponding chemicals should not be contained over written content

(Ex) In material classification 5.5.2 Textiles (in polymeric compounds), sum of substances corresponding to material classification 1~4 should not be contained over 95%

2.6 Create Material Data

2.6.1 Material Name

- Name to defining material should be used but commercial name should not be used. Commercial name should be entered to 'Trade name' in the right screen shot.
 - : Material name writing should follow below standards
 - 1) Steel : EN10027, JIS Standard (ex. STM-C 540)
 - ② Aluminum Alloy : EN 573, JIS Standard (ex. AI-Si12)
 - ③ Copper Alloy : ISO Standard (ex. CuAl5)
 - ④ Plastic : ISO 1043-1~4 (ex. PE-LD)
 - (5) Rubber : ISO 1629 (ex. ACM)
 - ⑥ Thermoplastic elastomers : ISO 18064 (ex. TPA-ES)
- Besides of above standard, material name should be expressed which can identify the properties of material. (ex. : Aluminum alloy, adhesive layer, Glass, Basecoat, Lubricant, etc.)



2.6.2 Preliminary MDS

HMC/KIA does not use 'Preliminary MDS' and it does not need to be checked.
 * Preliminary MDS : MDS created before detailed development stage in order to calculate a recyclability. Normally it does not have the detailed information of chemical composition.

2.6.3 Standard / Norm-

- Enter HMC/KIA MS number for material requirement.
 - ① If there are two or more MS for a material, each MS number should be entered.
 - X Only your company and HMC/KIA can see MS information of material which is entered.
 - ② ES is not mandatory.

2.7 Parts Composition

2.7.1 Creating Tree Structure

- MDS should be created with tree type by combination of component, semi-component, material and basic substance. See the correct examples as reference.
- Correct Tree Structure (example)





Incorrect Tree Structure (example)





 Material (•) must be located between (2) Materia• () must be located between component and substances
 Materia• () must be located between





(5) Same materials (•) should be composed by integration with one material

2.7.2 Part Composition including Direct-Purchasing parts

 When Direct-Purchasing parts are included in Assembly, input all the data except Direct-Purchasing parts. In case, Direct-Purchasing parts should be expressed as DUMMY PART
 ※ Except above case, dummy part can't be used

LEVEL	Part Name	Part No.	QT	Remark
1	MODULE-WHEEL & TPMS	52909-2S320	-	-
2	WHEEL-ALUMINUM	52910-2S200	1	-
2	NUT-TPMS	52930-2F000	2	-
2	VALVE-TPMS	57000-1X000	2	Direct Purchasing part

[Example] Assembly having Direct-Purchasing parts

If VAVLVE-TPMS is Direct-Purchasing parts, express it as dummy part (refer to below)

How to make DUMMY PART

- For details of component, input below values for all the dummy part
 - ► Description → 'DUMMY PART'
 - Measured weight per Item \rightarrow '1g'
 - ► Part/Item No. and Quantity→ actual quantity and part number

👌 MDS/Module Search	Ingredients * Supplie	r Data * Recipient data *	Analysis MD5 Request
🔁 📁 Filter 🛛 GADSL	✓ Q ✓ show regulatory i	nformation 🍏 👻 🍑 👻 🍕	4 🗢 + 🕒 + 🛊 +
V 🚯 MODULE-WHEEL & TMPS		Details	
1× WHEEL-ALUMINUM		✓ Common Information	
2× DUMMY PART		Туре	Component (Node)
••••••		Description	DUMMY PART *
		Part/Item No.	57000-1X000
		Amounts and Weights	
		Quantity	2 *
		Measured weight per item	1 g 🔽 *
		Calculated weight per item	0.0 g
		Deviation	-100.0% 🕜

• How to add DUMMY PART and dummy material.

① Search published data by HYUNDAI KIA MOTOR COMPANY and attach it to 'DUMMY PART'

(ID:251168843)

Name, ID, Version, Date Norm, Symbol, Classification Supplier MDSs, Own MDSs/Modules Internal MatNo. Trade name accepted MDSs own MDSs/Modules Internal MatNo. ID Still MatNo. Enable search by supplier ID D21168843 Current versions Norm Preliminary MDS Norm Q Image: Company- / OrgID							
Search with ID	251168 میں بندے میں ٹی	843' or	name	'Hyund	ai-kia'in p	Dublished seal	rch field.
Type Name	Symbol	Trade name	Std. MatNo.	Internal MatNo.	ID / Version S	Supplier HYUNDAI KIA MOTOR COMPANY	Received reg Date of first requ requests
search result							

Input weight '1g'



Details	
Common Information	
Туре	Material (own MDS) 🛛 💿 🖋
ID / Version	251168843 / 1
Node ID	251168843
MDS Supplier	HYUNDAI KIA MOTOR COMPANY
Name	Hyundai-kia 🕜
Trade name	- 🕐
Internal MatNo.	-
Preliminary MDS	No
⊻ Dates	
Create Date	4/24/2012 🕜
Check/Release Date	4/24/2012 🕜 📑 Recommendation
✓ Amounts and Weights	
Weight	1 g 🗸
✓ Material Information	
Std. MatNo.	• Weight : '1g'
Symbol	
Classification	7.2 Other compounds (e.g. friction lining
Classification	7.5 Other compounds (e.g. Inction linings
Norms / Standards	-

2.7.3 Creating Material Data at each Material Characteristics

- General method to create material data sheet follows IMDS Recommendation 001. In addition, the material data sheet data according to each material characteristics follows MDS Recommendation 002~023. But, next cases should follow below rule
 - Each material data sheet should be created separately for layer with consisted of two or more different materials



[(Ex) Part composed with layer type by 3 different materials]

3 kinds of materials should be composed separately

2. How to create MDS

- ② Since plastics are composed of polymer and subordinate materials (pigment, filler, flame retardant, other additives), it can not be composed with single substance only and particularly for PVC (polyvinylchloride), all contained substances should be written.
- ③ Basic substances in material should be input for materials remained at final product stage and exclude basic substances not remained at final products (Ex : when solvents contained in paint, ink are evaporated at final product)

2.7.4 Support for Multi-sourcing (if the same part is supplied from more than one subcontractor)

- Multi-sourcing function is applied to components only.
- It will be possible to reference alternative MDSs for one component from different suppliers in a new MDS.
- One of the alternatives will need to be defined as the preferred alternative, which will be used e.g. for weight calculations.

- All other alternatives will also be part of the MDS's ingredients allowing their content to be also found by the where-



2. MDS 입력 방법

2.8 Ranged Values

- Allowable ranges of component, Component, Semi-component/Material and Basic substance
- weight or content can be input selectively with range, Fix, Rest and when choose 'range', below allowable range values are applied according to 'IMDS Recommendation 001'

[allowable range values]

item	Content Rate (From X % to Y %)		Tolerance (M = Y % – X %)
Subcomponent	Subcomponent $0 < x \le 10$		Follows tolerances in drawing
Semicomponent/ Material	0 < x ≤ 10	00%	M ≤ 20 %
	0 ≤ x ≤ ⁻	7.5	M ≤ 3 %
Basic substance	7.5 < x ≤	20	M ≤ 5 %
	20 < x ≤	100	M ≤ 10 %
Details	Material language English 🔽	Details	
Common Information Type Material () ID / Version 45982260 Node ID 45982260 Name 1 ⑦ Trade name 1 ⑦ Internal Mat-No. 1 Preliminary MDS No Dates Create Date 11/13/2013 Check/Release Date 11/13/2013 Check/Release Date 11/13/2013 Weighted mean 0.0% Weighted mean 0.0% Weighted mean 0.0% Material Information Std. Mat-No Symbol -	Module)	✓ Common Informat EIN GADSL GADSL REA Cor ✓ Amounts and Weight ✓ Basic substance gu Basic substance gu	tion Type Basic Substance Name(s) Chromium lead oxide Lead Chromate Yellow CAS No. 11119-70-3 IECS-No EU-Index - Category duty-to-declare / prohibited CH-SVHC No ? fidential phts Portion from - to 0.0 - 0.0 % ed mean 0.0% roups e groups Appl. rel. subst.
Classification 2.1 Alumin Norms / Standards - Supplier . ? ♥ Remark Remark . ?	ium and aluminium alloys		Chromium(VI)-salts Lead or its compounds Renault Black Renault Complete



<Ranged value of basic substance>

- Other exceptional tolerance of ranges should follow 'IMDS Recommendations'
- Semi-components or materials published by IMDS committee can be allowable even if they exceed tolerance

2.9 Weight Tolerance of MDS

- Weight tolerance (deviation between measured weight and automatically calculated weight per item) of the top-level component (total weight of MDS) can not exceed 5%

2.10 Basic Substance information

- Only basic substances contained in the final product are to be reported (example: cured adhesives or paint coatings are entered without the evaporating solvents).
- Basic substances registered to GADSL* should be input. In addition, since GADSL is continuously updated due to related regulation revision, the latest GADSL should be checked before creating or modifying data sheet (http://www.gadsl.org)

* GADSL : Global Automotive Declarable Substance List

※ If SVHC* not included to GADSL are used, they should be input and not allowed to use wild cards or confidential for it.

* SVHC : Substance of Very High Concern

Use of Confidential Substances

Due to corporate confidence, data can be concealed not letting others read it and it can be used within 10% in homogeneous material.



If confidential substances are to use inevitably over 10%, MDS can be transmitted after designating '**Trust user'** and in this case, only trust user and data creator can see substance information.

※ Trust User: it is designated when corporate confindential substance composition is open to particular addressee only. Trust user can not use data for other purposes other than data evaluation.

★ Trust User : HYUNDAI KIA MOTOR COMPANY, PARK HYE YOUNG (email : phy1024@hyundai.com)

- Wild cards
- It is used for very high confidential and can not be exceeded over 10% in homogeneous material. (refer to 'IMDS Recommendation 001' for the kinds of wild card and how to use them) But, reliable published material data (refer to 1.7.3 Measuring Part Weight and Analysis of Substances
- in Material) containing wild cards is allowed even though over 10% of wild cards are used in homogeneous material.
- Basic substances included in GADSL should not allowed as wild cards. If substance is processed as wild cards and it is included in GADSL due to revision of GADSL, data sheet should be revised without wild cards and reapproved within 6 months after GADSL revision.
 - ※ Since GADSL is continuously changed due to new regulation or revision about chemical regulations, Confidential substance is rather recommended than wild cards for better history control.

<Wild Cards List>

- 1. Flame retardant, not to declare
- 2. Further additives, not to declare
- 3. Impact modifier, not to declare
- 4. Inorganic ingredient, not to declare
- 5. Misc. not to declare
- 6. not yet specified, not to declare (Not available)
- 7. Organic ingredient, not to declare
- 8. Pigment portion, not to declare

PVC (3)
 \$ 50.0% Silicate
 \$ 3.0% Zinc oxide
 \$ 7.0% Acrylic resin
 \$ 40.0% Misc., not to declare
 \$ 40.0% Misc., not to declare
 \$ 50.0% Silicate
 \$ 50.0% Silicate
 \$ 3.0% Zinc oxide
 \$ 7.0% Acrylic resin
 \$ 5.0% Misc., not to declare
 \$ 35.0% Carbon black

[Wild cards allowed within 10% in homogeneous material]

9. Plasticizer, not to declare

• Gas / liquid

Gas / liquid not existed in final product (Ex: plating solvent, paint solvent, preprocessing cleaner) are excluded when creating MDS. If gas / liquid are included in final product, input data as selecting material classification 9.x (refrigerant, brake oil, lubricant, battery liquid, etc)



Exclude water not included in final product

Process chemicals

Process chemicals used in the production of a material/part that are not contained in the end material/part must not be reported. But if they remain more than 0.1wt% in final materials, application of chemical should be chosen.



'hidden and delete' material unavailable

Substances used in all parts are constantly updated and 'hidden and deleted' substances are no longer available.

It is not found in the newly constructed material.

If you enter using existing data, you must modify it if it contains a 'hidden and deleted' material, which automatically it is excluded and not entered.

 Number of basic substances consisting material Material should be consisted of two or more basic substances.

🗸 🗞 TPU 100.0% Hexanedioic acid, polymer with 1,4-butanediol

Single basic substance consisting material does Not allowed to use.



Material should be consisted of two or more basic substances

in

2.11 4 Heavy Metals and their Application

- Lead (Pb), Cadimum (Cd), Mercury (Hg), Hexavalent Chrome (Cr⁶⁺) and their compounds should not be used exceeding defined allowable value. And even small content of them should be input in data sheet There is the threshold and exceptional permission of Heavy metals in HMC /KMC

Material

Specification 'MS 201-02' (refer to 1.5 of this manual for heavy metal allowable value)

- Exceptionally, in some applications those heavy metals are still tolerated (refer to MS201-02 for exceptional allowance). In this case proper application code should be chosen
 - % Application code per material inquiry : http://mdsystem.com \rightarrow IMDS Information Pages \rightarrow Help

 \rightarrow FAQ \rightarrow 'Is there any further explanation as to how to selected an Application ID?' in 'MDS

(Ex) 🦲	谢 MDS/Module Search	Ingredients * Supplier	Data * R	ecipient data * Analysis MDS Request
E	🖸 🔁 Filter 🛛 GADSL	Q Show regulatory in	formation 🍏) 👻 📽 📲 🎝 🤤 👻 🗈 🔹 🔹 🌋 Regulation Wizard
▽ 🧉	🚯 NUT ASSY 🔇		Details	Material language English 💟 😗
7	10.0g ap-3		✓ Common 1	Information
	10.0% Lead chromate r A Rest 0% Cadmium-2	nolvbdate sulfate red		Type Material (own MDS) 💿 🔊
				ID / Version 623531989 / 1
	\sim	When proh	ibited ma	terial "Lead" is I KIA MOTOR COMPANY
	\sim	included, a	oplication	is 🦻
	\sim	created aut	omatically	/ in material
		information		
				Preliminary MDS No
		\mathbf{X}		Create Date 11/7/2016 (?)
		\sim	C	heck/Release Date 11/7/2016 🕜 📑 Recommendation
		\sim	∠ Amounts a	and Weights
		\setminus		Weight 10.0 g 🗸
			⊻ Material I	information
				Std. MatNo
				(Institution 0.4 Flattening (a.e. as beende disalary)
				Classification 8.1 Electronics (e.g. pc boards, displays)
				Norms / Standards -
				Supplier _ 🕜
			Application	n
MDS - MATERIAL	L DATA SYSTEM			Component NUT ASSY
Application		🕜 Guid	de for ELV Annex II	Application [10] I sold absent and base 8(c) - Lead in finishes on
Componen	nt NUT ASSY			sulfate red 10.0 terminals of electrolyte aluminium capacitors [55]
Basic Substance	ce Lead chromate molybdate sulfate red			Cadmium-zinc-sulphide 90.0 Thick film pastes [28]
Portion	on 10.0 % (MAX)			
7 5 - Battery	n/			Arbiany application code is automatically decignated
12 Carbon bru 17 Glass in bul	ushes for electric motors ulbs and glaze of spark plugs			the system. Creater should shack and ravise it to the
20 Other applie 53 8(a) - Lead	lication (potentially prohibited) d in solder used in electronic circuit board a	pplications		near reade with reference to MS201.02 if wrong
54 8(b) - Lead	d in solders in electrical applications other the	han soldering on electronic circuit boards	or on glass	proper code with reference to MS201-02 II wrong
56 8(d) - Lead	d used in soldering on glass in mass airflow	sensors		
57 8(e) - Lead more lead)	a in nigh melting temperature type solders ()	(i.e. lead-based alloys containing 85 % by	weight or	
59 8(g) - Lead integrated of	d in solders to complete a viable electrical c circuit flip chip packages	onnection between semiconductor die and	a carrier within	
160 18(b) - Lead	d in solder to attach heat spreaders to the h	neat sink in nower semiconductor assembl	29i	
		✓	Apply 🎧 Cancel	

2.12 Material Marking

MDS - MATERIAL DATA SYSTEM

- When materials composing component fall under material classification 5.x, material marking information should be written to component details
 - % It should be written after checking whether material is marked in actual component according to HMC /KIA Material Specification 'MS201-01 Marking of materials for automotive parts'

Classification			
Classification	Description		
3.3	Zinc alloys		
3.4	Nickel alloys		
3.5	Lead		
4	Special FMA - La Classifica - La Fall		
4.1	Platinu [IVIaterial Classification 5.X]		
4.2	Other Spectra up and		
5	Polymer materials		
5.1	Thermoplastics		
5.1.a	filled Thermoplastics		
5.1.b	unfilled Thermoplastics		
5.2	Thermoplastic elastomers		
5.3	Elastomers / elastomeric compounds		
5.4	Duromers		
5.4.1	Polyurethane		
5.4.2	Unsaturated polyester		
5.4.3	Other duromers		
5.5	Polymeric compounds (e.g. inseparable laminated trim parts)		
5.5.1	Plastics (in polymeric compounds)		
5.5.2	Textiles (in polymeric compounds)		
6	Process polymers		
6.1	Lacquers		
6.2	Adhesives, sealants		
6.3	Underseal		
7	Other materials and material compounds (scope of mixture)		
7.1	Modified organic natural materials (e.g. leather, wood, cardboard, cotton f		
7.2	Ceramics / glass		
7.3	Other compounds (e.g. friction linings)		
8	Electronics / electrics		
0.1	Electronics (e.e. no bearda gisalava)		



[Check whether material is acutally marked]



🗸 Apply

2.13. Enter Material Recycling/Reuse Information

- Enter information when including recycled materials for material classifications 1, 2, 3, 4, 7.1 and 7.2



- Plastic Material (MDS of Materials in Category 5.x) Material supplier must enter recycling information directly into MDS.

	Company	Norm	Norm Code	
Supplier				
		(2)		
Recyclate				
	The recyclate content re polymers, the recyclate	efers to the entire materia content can therefore onl	, not only the polymer content. In case of y be 100% if the filler material is also recy	filled date.
Does the material contain recyclate?	Yes 🗸	*		
	Content of post-ind	ustrial/pre-consumer re	yclate (see ISO 14021)	
	Post-Industrial Recyclate reutilization of materials	e that has been diverted from such as rework, required or s	the waste stream during a manufacturing proce trac generated in a process and carable of being	Excluded is to reclaimed.
	within the same process	that generated it (home scra	p recycling)	9
	1.0	10.0 %		
	Content of post con	sumer recyclate (see IS	D 14021)	
	Post-Consumer Recyclat in their role as end-user of material from the dist	e has been generated by hou s of the product which can no tribution chain	scholds or by commercial, industrial and institut longer be used for its intended purpose. This is	ional facilities noludes returns
	1.0	20.0 %		
✓ Remark				

* Existing MDSs prior to IMDS Release 13.0 are currently in effect, and edit at the parent node when entering recycling information

2.14 Contact Person Assignment

- Contact person of supplier should be assigned before transmitting MDS. Contact person should be is assigned to the personnel who is responsible all business related to IMDS and can communicate with Hyundai·Kia.
- When existing contact person is resigned / transfered, new personnel should be assigned among employees presently involved with IMDS

* Please see '<u>References</u>' in this guidance for changing contact person.

파악(F) 편집(F) 보기(A) 즐겨찾기(A) 도구(F) 도움막(H)	
HYUNDAI KIA MOTOR COMPANY [71404]	MATERIALDATA
MDS 🔻 Functions 🗸 Administration 👻 Help 👻 📔 📔 🤝 🔛 📔 🖉 📔 🗮 🖉 📩 😴 💆 💮 🍫	STSTEW
😂 MD5/Module Search Ingredients * Supplier Data * Recipient data * Analysis	MD5 Request
Name 1555283 ID version 722437008 / 0.01 Node ID 722437008 Status Edit mode	
Company	
Company HYUNDAI KIA MOTOR COMPANY Organisation unit HYUNDAI KIA MOTOR COMPANY Company ID 71404 Company ID 71404 DUNS Number - DUNS Number - Company Address 104, Mabuk-Dong Giheung-Gu, yongin-Si 449912 Gyeonggi-Do KR (Korea, Republic of) Organisation unit HYUNDAI KIA MOTOR COMPANY	V
Contact Person Contact Person PARK, HYE YOUNG A E-Mail phy1024@hyundai.com Telephone No. +82-31-5172-3579 Fax No	unication window related to
	J

3.1 Sending MDS

3.1.1 Choice of Recipient

- Created MDS should be transmitted to the plant of model to which corresponding part are applied and organization unit ID of HMC/KIA plants should be referred at below table.
 Ex) Part applied to passenger car produced in Turkey plant → Send MDS to 71405
 - \star Please be careful that MDS transmitted to wrong recipient will be rejected.

In addition, it is not valid even though it is sent to wrong recipient and approved

Company	Plant	Recipient [Org. unit ID]			
	All parts produced in Korea plantsAll parts supplied to Czech plant (HMMC)All parts supplied to Turkey plant (HAOS)	HYUNDAI MOTOR COMPANY [71405]			
	Local parts supplied to India Plant (HMI)GKD parts supplied to India Plant (HMI)	HYUNDAI MOTOR INDIA (HMI) [192766]			
НМС	Local parts supplied to Alabama Plant (HMMA)GKD parts supplied to Alabama Plant (HMMA)	HYUNDAI MOTOR ALABAMA (HMMA) [119671]			
(passenger car)	Local parts supplied to Brazil Plant (HMB)GKD parts supplied to Brazil Plant (HMB)	HYUNDAI MOTOR BRAZIL (HMB) [128948]			
	Local parts supplied to Russia Plant (HMMR)GKD parts supplied to Russia Plant(HMMR)	HYUNDAI MOTOR RUSSIA (HMMR) [128949]			
	 Local parts supplied to Indonesia Plant (HMMI) GKD parts supplied to Indonesia Plant (HMMI) 	HYUNDAI MOTOR MANUFACTURING INDONESIA (HMMI) [225598]			
	All parts produced in Korea plantsAll parts supplied to Slovakia Plant (KIA)	KIA COPRPORATION [71406]			
KIA	Local parts supplied to Georgia Plant (KaGA)GKD parts supplied to Georgia Plant (KaGA)	Kia GEORGIA (KaGA) [119673]			
(passenger car)	Local parts supplied to Mexico Plant (KMX)GKD parts supplied to Mexico Plant (KMX)	Kia México S.A. de C.V (KMX) [175429]			
	Local parts supplied to India Plant (KIN)GKD parts supplied to India Plant (KIN)	KIA India Private Limited (KIN) [198329]			
Commercial Vehicle	All parts applied to commercial vehicles	HMC/KIA COMMERCIAL VEHICLE [155405]			
Special	All parts supplied to HMC Special Vehicle	HMC SPECIAL VEHICLE [155406]			
Vehicle	All parts supplied to KIA Special Vehicle	KIA SPECIAL VEHICLE [156364]			
-	 Subsidiary materials applied to vehicles produced in Hyundai · Kia 	HMC/KIA SUBSIDIARY MATERIALS [205676]			
-	Development parts of the ESIR stage of all parts.	HMC/KIA ESIR [214102]			

• How to assign recipient

ICM. YOUNGORL & HUNDAI KA MOTOR COMPANY [71404] MDS ~ Functions ~ Administration Sent HDSs Ingredier Name COVER RR-BUMPER ID vers	Help Help	L ♥ L ♥ @ C % % I Analysis HDS Request is Edit mode	MATERIALD/ SYS	₩∃
110 DAE NA CO., LTD. [37125]	edit mode (03/07/2018) MDS - MATERIAL DATA SYSTEM	Details	- DAE 114 00 170 (03402)	
	Company Company Org Un DUNS Number	Zip Code City Country Country	User Name User ID Only root companies	
	View - Menu Export Company Name	Qra Unit	ID. Zin Code City	Q Search
	HYUNDAI KIA MOTOR COMPANY	HYUNDAI MOTOR COMPANY	71405 445-706 WHASUNG	SI, GYUNGGI-DO
	1		apply Addressee	Meny Total records found 1 View Apply () Cancel

(Continue to next page)

KIM, YOUNGCHUL & HYUNDAI KIA MOTOR COMPANY [7:494]	MATERIALDAT
MDS 🔻 Functions 👻 Administration 👻 Help 👻 🔛	▶ 🔁 ≛ 🗢 😫 🗸 Ø 🗠 % % 🗷 SYSTEI
🔮 Sent MDSs Ingredients * Supplier Data * Re	cipient data * Analysis MDS Request
Name COVER RR-BUMPER ID version 711884813 / 1.01 Node ID 7266	37630 Status Edit mode
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Propose MDS to recipient	✓ Transfer Information
	Company DAE HA CO., LTD. [3/125] Organisation unit -
	Recip. Status edit mode Mandatory field
	Supplier Code R780
	Name COVER RR-BUMPER
	Part/Item No. 86611-M6000
	Transmission/Check Date not available
	Forwarding allowed
	✓ Drawing
	Drawing Change Level KC5G0457
	YPurchase Order Mandatory field
	Purchase Order No.
	M Report
	Report No.
	Date of Report

3.1.2 Input Transfer Information -

- When send MDS to Hyundai Kia, the following information should be added to your MDS.
 - . Supplier Code : Vaatz code of your company
 - . Name : part name in HMC/KIA BOM
 - . Part/Item No. : part number in HMC/KIA BOM. Please see 2.2 in this guidance.
 - . Drawing Change Level : The latest EO (Engineering Order) number

3.2 Feedback after Sending MDS

3.2.1 How to modify an rejected MDS

- MDS should be revised and re-transmitted after modifying the reject reason.
- If any further question about reject reason, please contact HMC / KIA contact person (refer to 'Summary' of this guidance)

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3.2.2 When part changes occur

 When part change occurs in already approved MDS (EO change, material or basic substance change, addition / deletion of sub-part, weight change (over 3% of total weight), color change, etc), MDS should be revised (version-up with same ID) and approved again

References

1. How to re-send accepted MDS with the same ID and version-up to the different recipient

- IMDS Log-in and go to Outbox> choose 'MDS' (1) - Input search option (2) and in search screen and click 'Search (3)

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- Choose target MDS (④) and click right button of mouse - Choose 'Copy' and 'new version' (⑤)

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- Modify MDS if needed (part composition, material , basic substance)

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	Details	
✓ Test 2.5g DUFLEX K EVONY BLACK (EB) ✓ Set 3150.0g M7392T		
	Type Component (own MDS)	
	ID / Version 711884813 / 2.01	
	Node ID 907844940	
	MDS Supplier HYUNDAI KIA MOTOR COMPANY	
	Description COVER RR-BUMPER *	
	Part/Item No. 86611-M6000	
	Preliminary MDS	
	⊻ Dates	
	Create Date 2/25/2020 🧭	
	Check/Release Date not available 🧷 📑 Recommendation	
	⊻ Amounts and Weights	
	Measured weight per item 3152.0 g 💌 *	
	Calculated weight per item 3152.5 g	
	Deviation 0.015863% (?)	
	✓ Parts Marking	
	Polymeric part(s) marked Yes (Parts marked as required by law.)	?

Go to 'Supplier Data*' (6) Choose your 'Contact person' (7)

ame COVER RR-BUMPER ID version 711884813 /	Node ID 817471597 Status Edit mode
Company HYUNDAI KIA MOTOR COMPANY Company ID 71404 DUNS Number - Company Address 104, Mabuk-Dong Giheung-Gu, yongin-Si 449912 Gyeonggi-Do KR (Korea, Republic of)	Organisation unit HYUNDAI KIA MOTOR COMPANY Company ID 71404 DUNS Number - Company Address 104, Mabuk-Dong Giheung-Gu, yongin-Si 449912 Gyeonggi-Do KR (Korea, Republic of)
Contact Person Contact Person PARK, HYE YOUNG () E-Mail phyl024@hyundai.com Telephone No. +82-31-5172-3579 Fax No	

- Go to 'Recipient data* (®)
- Choose recipient ((9)) and delete it ((10))
- Recipient is deleted if you click 'Yes'(1)
- Add recipient (12)

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			Details	_
9			✓ Transfer Information	
			Company DAE HA CO., LTD. [37125]	
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		_	Name COVER RR-BUMPER	_
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			(11) k Date not available	
			✓ Yes Ω Cancel	
			Drawing No.	
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			⊻ Purchase Order	
			Purchase Order No.	
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			⊻ Report	
			Report No.	
		1	Date of Report	

- Enter 'Company ID' or 'Company Name'(13) (for example company of for HMI is 198329) and search
- Choose recipient (1) and click 'apply'

Company Name Enter a number greater than or equal to 0. User Name User ID Org Unit Org Unit Country Only root companies Only root companies View Menu DAE HA COL, LTD. DAE HA COL, LTD. Total records found 1 View View View View View View View View View View View	MDS - MATERIAL DATA SYSTEM						
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- Enter 'Transfer Information' (⑤)

- Click 'Propose'(15-1)



References

2. How to change Contact Person

Case 1. Change information of contact person

[caution] In order to change or create contact person information, Administration

authority is needed

Functions -	Administration - Help -	E 🗸	8 🖻 🔁 🗸 ,	💁 🛫 🛓 🔻 🔗 🔘 🍕	A CO		STATE
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Search Criteria					
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ompany Name	Last name	First name	ID	Phone 1 01 21 21 22 22 22 22 22 22 22 22 22 22 22	
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YUNDAI KIA MOTOR COMPANY YUNDAI KIA MOTOR COMPANY	KIM 🕗 View	④ click right butt	on of mous	e and choose '	Edit'

Functions - Administration - Help -	▋ ▋ ♥ 🗒 ♥ ≛ ♥ ≛ ♥ ♥ @ % % % X	3131
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Contact Person		
Company Name HYUNDAI KIA MOTOR COMPANY		
Last name KIM *		
First name HAN SUK *		
Department MATERIAL TECHNOLOGY & RESE		
Mailbox bombee527@hyundai.co		
E-Mail bombee527@hyundai.com *		
Phone +82-31-5172-3582	(5) Modify informaton	
Fax No.	_ ,	
Responsibility 🖌 IMDS 📄 REACH		
active active		
Send a new confirmation e-mail		

Case 2. Inactive Contact person

Contact Pers Q Language Personal Settings Alt+Shift+P Search Criteria Company Name Company Name Image: Company Name Company Name Image: Company Person ID Person ID Last name Company Image: Company Person ID Image: Company Image: Company Image: Company Name Image: Company Name Image: Company Name Image: Company Name Image: No data to display Image: Company Name Image: C	Functions - Ac	Iministration 👻 Help 👻	🗋 🔻 🖫	🕞 🔁 🔻 📩 🗸	🔔 🔻 🕤 🔘 🍫 🕻	JI. C		STOL
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Last name Company First name Company First name Contact Person (1) log in > Administration > Contact Person (2) Click Sear View + Men Modata to display Statistics + Last name First name ID Phone active Statistics + Meny Total records found 0	Company Name F 🤅	Notifications	Person ID					
First name Contact Person ① log in > Administration > Contact Person ② Click Search	Last name	Company	ponsibility	\sim				
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Search Criteria						
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Last name	Respons	ibility 🗸				
First name						
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					🗋 Create 🛛 Q Search	h j
View 🔻 🔚 Menu 🛛 🖾 Export		(3) choose the list				_
Company Name	Last name	First name	ID	Phone	active	
HYUNDAI KIA MOTOR COMPANY	KIM	HAN SUK	4	+82-31-5172-3582		
HYUNDAI KIA MOTOR COMPANY	KIM 🖋 Edit			+82-31-5172-3578		\mathbf{h}
HYUNDAI KIA MOTOR COMPANY	KIM 💿 View		ion or 2mous	e and choose Ed		
HYUNDAI KIA MOTOR COMPANY	PARI Copy	HYE YOUNG	1	+82-31-5172-3579	¥	\sim
					Menu Total records found	4

3 Functions	✓ Administration ✓ Help ✓			🗈 🔁 🗸	🕹 🔻 😩	- 🧳) 🕘 🐁 🥎	1		
🔒 Contact Pe	rson Details		6 (Click 'Save'						_
Contact Person										
Company Name	HYUNDAI KIA MOTOR COMPANY									
Last name	KIM	*								
First name	HAN SUK	*								
Department	MATERIAL TECHNOLOGY & RESE									
Mailbox	bombee527@hyundai.co									
E-Mail	bombee527@hyundai.com	*								
Phone	+82-31-5172-3582									
Fax No.										
Responsibility	IMDS REACH									
active	5 Inactive this b Send a new confirmation e-mail	ox								

3. Create new contact person

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🔥 Contact Perso	Q Language Alt+Shift+P					
Search Criteria	Change Password					
Company Name	• Notifications	Person ID				
Last name	Company	ponsibility 🔽				
First name	Contact Person) log in > Administ	tration > Co	ntact Person		2) Click "Create"
	REACH Contacts	-				
	💰 User					Create Q Search
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View View View	MDS Admin				-	
Company Name No data to display	Statistics +	Last name	First name	ID	Phone	active
	Org Unit Report]				Menu Total records found 0

2 - Functions - Administration - Help -	Click 'Save' and the email automatically sent to the below email address.
A Contact Person Details *	
Contact Person	
Company Name HYUNDAI KIA MOTOR COMPANY	
Last name *	
First name *	
Department	
Mailbox	
E-Mail *	
Phone	
Fax No.	③ Register Contact information.
Responsibility 🔽 IMDS 🗌 REACH	* is mandatory field
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(https://www.mdsyste	P - ■ C 2 Autoway2.0 MDS - MATERIAL DATA S × 命 ☆ いいのでは、 Autoway2.0 の ☆ かいのでは、 Autoway2.0 0 ☆ ☆ かいのでは、 Autoway2.0 0 ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆
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	MATERIAL DATA System
Login	Contact Activation
User ID	You are a registered contact person in IMDS for the following company:
Password	Company Name HYUNDAI KIA MOTOR COMPANY
Language English 🔽	A contact person is required on every MDS before it may be sent/proposed, so the customer knows who to contact if there are questions. An MDS cannot be sent if it does not have a contact listed.
User ID forgotten Request new password Terms of use	Click the Activate button to activate your IMDS contact functionality for the named company. If you do not want to activate your contact functionality in IMDS please click the Cancel button to discard the contact activation. Activate O Cancel
	5 Contact person should be access email and click link in email
	\rightarrow
	click 'Activate'