

# Supplier MDDS Template Input Guidelines



# Agenda

- **Introduction of Supplier MDDS form**
- **MDDS Form Sheet Input**
- **Lab Test Data Sheet Input**
- **Note for Lab Test Report**
- **Examples of Incorrect Lab Test Report**
- **Environmental Declaration of Conformity**
- **Using the Macro**

# Introduction of Supplier MDDS form

- There are total of 3 sheets to be filled up by suppliers. For each sheet, do not rename the tab.
  - MDDS
  - Lab Test Data
  - EDoC

# MDDS Form Sheet Input

- Area highlighted in yellow (General information) is mandatory to fill up

Material Data Declaration Sheet		Check Input	+ 10 Rows	RESET	Export	SANDISK™
Date						
Product Line						
Sandisk Part Number						
Supplier Part Number						
Product Description						
Product Revision						
Product Total Weight (g)						
Contact Information	Company					
	Sandisk Supplier Code					
	Contact Name					
	Address					
	Email					
	Phone Number					

# MDDS Form Sheet Input

## Note for General information:

- **Date:** The date at which supplier submitted MDDS to Sandisk.
- **Product Line:** Supplier shall choose from the product categories defined in GP from **the dropdown menu.**
- **Sandisk Part Number:** Sandisk Procurement shall provide Sandisk P/N to supplier.
- **Supplier Part Number** The part number supplier uses internally. If supplier does not have this P/N, can use corresponding Sandisk P/N instead.
- **Product description:** Description for the product.
- **Product Revision:** Product revision number.
- **Contact information:** Supplier contact information including supplier name, supplier code (received from Sandisk procurement), contact name, address, email and phone number.

**Reminder: Sandisk system only captures English language, please do not submit other than English**

# MDDS Form Sheet Input

Example on how to fill up

Material Data Declaration Sheet		Check Input	+ 10 Rows	RESET	Export	SANDISK™
Date	02-05-25					
Product Line	Category 1					
Sandisk Part Number	12345					
Supplier Part Number	ABCDE					
Product Description	Enter description here					
Product Revision	Revision no					
Product Total Weight (g)		<b>Do not enter the total weight here , this will be auto-calculated</b>				
Contact Information	Company	Enter supplier company name				
	Sandisk Supplier Code	Enter supplier company code				
	Contact Name	Name				
	Address	Enter address here				
	Email					
Phone Number	123-456-7890					

# MDDS Form Sheet Input

- **Suppliers are mandatory to fill up the detail homogenous material information**

- 1. Homogenous Subcomponent:**

Materials used on Sandisk product that cannot be mechanically disjointed into different materials

- 2. Homogenous Subcomponent Weight (g):**

Total Homogeneous subcomponent weight and total substances weight must tally and input manually

- 3. Substances:**

The chemical elements included in homogenous subcomponent

- 4. CAS Number:**

Chemical Abstracts Service Registry Number, which is a unique identifier for the chemical substance. CAS# should match with respective substance

- 5. Substance Weight (g):**

Weight of each chemical substance

# MDDS Form Sheet Input

## 5. Purpose:

For what purpose substance is used

## 6. Location:

The location where substance is used on subcomponent

## 7. EU RoHS Exemption:

Select RoHS exemption from the exemption dropdown menu. If there is no exemption needed, leave it blank

## 8. Is this substance process chemical

Select Yes or No from the dropdown menu to identify the process chemical



# MDDS Form Sheet Input

## Example for Homogenous Material Declaration ✓

Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Does this substance contain process chemical
Core Material	0.648	copper foil	N/A	---	0.4212			Core	No
		glass fiber	N/A	65997-17-3	0.1166				No
		Epoxy resin	N/A	N/A	0.1102				No
Solder Mask	0.165	Formaldehyde,polymer with 2	N/A	28906-96-9	0.0285			Solder Mask	No
		Triglycidyl isocyanurate	N/A	2451-62-9	0.0223				No
		slovent naphtha,heavy aromatic	N/A	64742-94-5	0.0144				No
		dipentaerythritol hexaacrylate	N/A	29570-58-9	0.0152				No
		dipentaerythritol pentaacrylate	N/A	60506-81-2	0.0141				No
		diethylene glycol monoethyl ether acetate	N/A	112-15-2	0.0149				No
		melamine	N/A	108-78-1	0.0071				No
		trimethylolpropane triacrylate	N/A	15625-89-5	0.0064				No
Copper Plating	0.651	Naphthalene	N/A	91-20-3	0.0014				No
		Other	N/A	---	0.0406				No
		Copper	Cu	7440-50-8	0.6506			Conductor	No
		Zinc	N/A	7440-66-6	0.0001				No

# MDDS Form Sheet Input

## Wrong Way to Enter Material Declaration Data ✘

Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Does this substance contain process chemical
Core Material	0.648	Please Enter Here							
		glass fiber	N/A	65997-17-3	0.1166				
		Epoxy resin	N/A	N/A	0.1102				
Solder Mask	0.165	Formaldehyde, polymer with 2	N/A	28906-96-9	0.0285				
		Triglycidyl isocyanurate	N/A	2451-62-9	0.0223				
		slovent naphtha, heavy aromatic	N/A	64742-94-5	0.0144				
		dipentaerythritol hexaacrylate	N/A	29570-58-9	0.0152				
		dipentaerythritol pentaacrylate	N/A	60506-81-2	0.0141				
		diethylene glycol monoethyl ether acetate	N/A	112-15-2	0.0149				
		melamine	N/A	108-78-1	0.0071				
		trimethylolpropane triacrylate	N/A	15625-89-5	0.0064				
		Naphthalene	N/A	91-20-3	0.0014				
		Other	N/A	---	0.0406				
Copper Plating	0.651	Copper	Cu	7440-50-8	0.6506				
		Zinc	N/A	7440-66-6	0.0001				

Do not leave any gaps, Please make sure there are no yellow/red filled cells



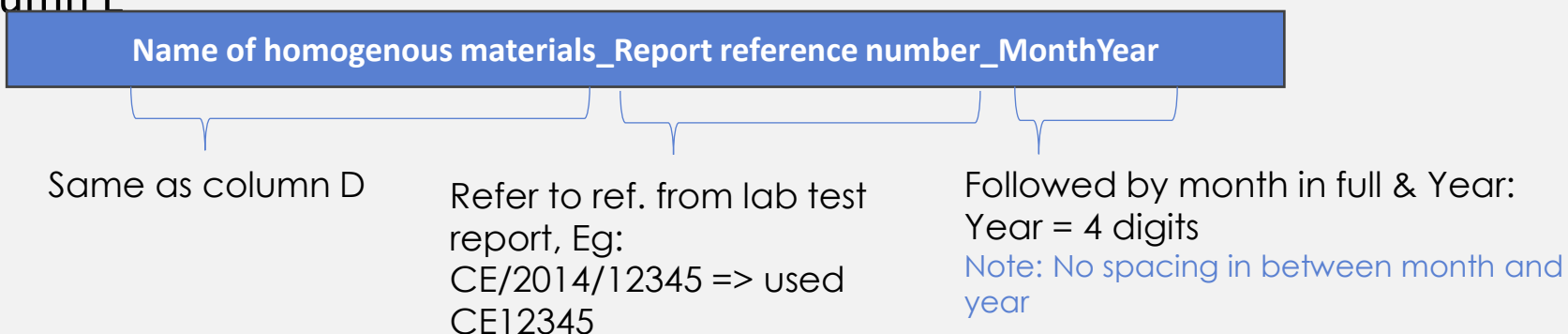
# Lab Test Data Sheet Input

## 1. General Information

- General information must be manually entered from MDDS Form sheet
- For this sheet, suppliers required to fill up column C to E and column G to O

## 2. Lab Test Report (Column E)

- Suppliers are **MANDATORY** to follow the renaming of lab report reference number for column E as below.
- All the test report copies must be renamed accordingly
- If RoHS and Halogen were tested separately. Please rename both accordingly and provide 2 references in column E



Example of **CORRECT** renaming: **Housing\_CE12345\_June2024**

### Note:

**1. All the information should be entered same in MDDS and Lab test data**

# Lab Test Data Sheet Input

## – Column G to O: Test Results, Test Date & RoHS Exemption

### 4. Test Results

Input data as per reported in lab test report. If test result is Not Detected, input as “ND”; if test report is not required (eg, halogen report for metallic application) input test result as “NA”.

### 5. Test date

Referring to the issuance date of the report

### 6. EU RoHS Exemption

Select RoHS exemption from dropdown menu if any. Leave it as blank if not applicable

### 7. Is this substance process chemical

Select Yes or No from the dropdown menu to identify the process chemical

# Lab Test Data Sheet Input

Example to fill general information and test result:

- Please fill only the Test Results
- Components, Subpart, and Homogeneous Materials will be Automatically Populated

**SANDISK™** Check Input +1 Result Table

<b>Sandisk Part Number</b>	12345
<b>Supplier Part Number</b>	ABCDE
<b>Supplier Name</b>	plier company name

**Attach Lab test report (in zip file) in**  **Attach Zip file containing all lab reports here**

**Reminder to suppliers:**  
1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9)  
2) Provide the lab test report reference number at Column E respectively

Components	Subpart	Homogenous materials	Lab test reports	Test Results							
				Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBDEs	An
	N/A	Mold compound		Result	ND	ND	ND	ND	ND	ND	10-4
	N/A	Leadframe		Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-4
				RoHS exemption							
				Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBDEs	An
				Result	ND	ND	ND	ND	ND	ND	
				Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-4
				RoHS exemption							

**Attach all lab reports of each homogenous material in the respective cells**

# Note for Lab Test Report

- Sandisk only accepts the lab test reports from ISO17025 certified 3rd party laboratories
- All the test reports must be within 1 year validity from the data of issuance
- A complete test report must include the below content:
  1. General information: reference number of test report, supplier name, sample name, sample description, sample type, test period and etc
  2. Testing process and test result: test requirement, test method/ flow, sample preparation, test substance, MDL and test result
  3. Sample picture.
- MSDS (Material Safety Date Sheet) is not accepted to replace test report

# Examples of Incorrect Lab Test Report

## Incorrect lab test report example:

Example 1: The description for paste in lab test reports are mismatch.

Description for specimen 1 : Dk-**brown** paste **RoHS & Halogen**

Description for specimen 1 : Dk-**grey** paste **Sb Lab Test Report**

All the lab test reports description for paste should be consistent.

Example 2: The color description in MDDS mismatch with description in lab test report.

Especially ink, poSandisker, solder paste etc.

Product
Description   BOOT, SDCZ4T-004G, MICROSKINS, <b>BLUE</b> MORPHO

sample Name	色粉
sample Description	Deep <b>red</b> powder

# Examples of Incorrect Lab Test Report

Example 3: Lab test report with sample mixed tested won't be accepted. Homogenous level lab test report is required.

## 测试样品描述:

样品编号	SGS样品ID	描述
1	SHA13-068522.001	透明膜带银色涂层 (混合测*)

## Test Result(s)

PART NAME No.1 : TRANSPARENT BROWN PLASTIC FILM (INCLUDING THE RELEASE PAPER)

Example 4: Description of material in MDDS sheet mismatch with that in lab test report

30		Syntheetic Rubber
31	Leadframe DCI	Silicon
32		Nickel
33		Magnesium
34		Iron
35		Zinc
36		Manganese
37		

SAMSUNG TECHWIN CO., LTD.  
42, SUNGJU-DONG, CHANGWON, KOREA

The following sample(s) was/were submitted and identified:

Sample Description : AYAU12-03482 (ONE S  
Style/Item No. : C7025-UPG RT  
Order No. : LF\_RoHS\_1206-003



# Examples of Incorrect Lab Test Report

Example 5: Validity date expired. Sandisk shall request supplier to provide latest lab test report.

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : MURATA MANUFACTURING CO., LTD.  
Sample Name : Wire CU\_230831  
CLIENT REF No : 1230724011

=====  
Sample Receiving Date : 24-Aug-2023  
Testing Period : 24-Aug-2023 to 31-Aug-2023

**Sandisk only accepts test reports within 1 year validity (from date of issuance)**

Example 6: Soluble substance lab test report can't be accepted by Sandisk.

## 1) Soluble Antimony Content

With reference to EN71 part 3: 1994 (including amendment A1: 2000+ AC:2002). Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

Element	Sb
Soluble Limit (mg/kg)	60
Specimen Description	Adjusted Soluble Result (mg/kg)
Black glue	160*

## 2) Antimony Content

With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES)

Element	Black glue	MDL
Antimony (Sb)	2.51X10 <sup>3</sup>	5

# Environmental Declaration of Conformity (EDoC)

Suppliers are required to fill the Environmental Compliance Declaration

		<b>SANDISK™</b>
<b>EDoC</b> <b>Environmental Declaration of Conformity</b>		
<b>1</b>	<b>Scope</b> This declaration form applies to all Materials, Parts, Products & Packaging supplied to Sandisk and is used to verify compliance to environmental requirements in 01-01-WW-00-00002 Rev 21  <b>Environmental Compliance Declaration :</b> By submitting this document, Supplier represents and warrants to SanDisk that all information in this document, including the "Full Material Disclosure" in the MDDS, is accurate and without omission.	
<b>2</b>	<b>Environmental Compliance</b>	YES/ NO
	<b>1</b> RoHS Compliance as per EU Directive 2011/65/EU or the latest Comment:	<input type="checkbox"/> YES/ <input type="checkbox"/> NO
	<b>2</b> Does part contain any substance listed in the current REACH SVHC Candidate List? Comment:	<input type="checkbox"/> YES/ <input type="checkbox"/> NO
	<b>3</b> Compliance to Halogen-free - BFR/CFR/PVC; Br < 900 ppm, Cl < 900 ppm, Cl in the form of PVC < 900 ppm, Br + Cl < 1500 ppm  Comment:	<input type="checkbox"/> YES/ <input type="checkbox"/> NO
	<b>4</b> Red-Phosphorus Free : Red-P < 1000 ppm Comment:	<input type="checkbox"/> YES/ <input type="checkbox"/> NO
	<b>5</b> Antimony TriOxide Free : Sb2O3 (CAS # 1309-64-4) < 700 ppm Comment:	<input type="checkbox"/> YES/ <input type="checkbox"/> NO
	<b>6</b> Banned Substances Free for the prohibited substances listed in Sandisk Sandisk (01-01-WW-00-00002 Rev 21)	<input type="checkbox"/> YES/ <input type="checkbox"/> NO

# Questions changed/added to EDoC with New Revision

Added following questions to adhere the requirement of revealing presence of controlled/reportable substance present in final product -

- Does Part contain any PFAS (per- and polyfluoroalkyl substances)?
- Does Part contain any Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under TSCA Section 6(h)?

# Using the Macro

Once all the Mandatory Data, and Material Declaration is Entered, Click on “Check Input” Button

Material Data Declaration Sheet		Check Input		+ 10 Rows		RESET		Export		SANDISK™	
Date	02-05-25										
Product Line	Category 1										
Sandisk Part Number	12345										
Supplier Part Number	ABCDE										
Product Description	Enter description here										
Product Revision	Revision no										
Product Total Weight (g)	0.079173										
Contact Information	Company	Enter supplier company name									
	Sandisk Supplier Code	Enter supplier company code									
	Contact Name	Name									
	Address	Enter address here									
	Email										
	Phone Number	123-456-7890									
Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Is this sub process ch		
Mold compound	0.0384	Silica (amorphous)		60676-86-0	0.034061						
		Epoxy resin		29690-82-2	0.002347						
		Phenol resin		9003-35-4	0.0019602						
		Carbon black		1333-86-4	0.0001181						
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775						
		Iron (Fe)		7439-89-6	0.0008164						
		Silver (Ag)		7440-22-4	0.0001521						
External plating	0.001268	Tin (Sn)		7440-31-5	0.001268						
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503						
		Nicke (Ni)		7440-02-0	0.0000274						
		Silver (Ag)		7440-22-4	0.0000162						
		Gold (Au)		7440-57-5	0.0000071						
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231						
		Epoxy resin		-	0.0000629						
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586						
		Total Weight (g):			0.079173						

# Using the Macro

The Total Weight and PPM are Auto Calculated, and the Tab color turns Green suggesting there are no Errors

**Material Data Declaration Sheet** Check Input + 10 Rows RESET Export **SANDISK™**

Date	02-05-25	
Product Line	Category 1	
Sandisk Part Number	12345	
Supplier Part Number	ABCDE	
Product Description	Enter description here	
Product Revision	Revision no	
Product Total Weight (g)	0.079173	
Contact Information	Company	Enter supplier company name
	Sandisk Supplier Code	Enter supplier company code
	Contact Name	Name
	Address	Enter address here
	Email	
Phone Number	123-456-7890	

Homogeneous Subcomponent	Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Is this sub process ch
Mold compound	0.0384	Silica (amorphous)		60676-86-0	0.034061				
		Epoxy resin		29690-82-2	0.002347				
		Phenol resin		9003-35-4	0.0019602				
		Carbon black		1333-86-4	0.0001181				
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775				
		Iron (Fe)		7439-89-6	0.0008164				
		Silver (Ag)		7440-22-4	0.0001521				
External plating	0.001268	Tin (Sn)		7440-31-5	0.001268				
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503				
		Nickel (Ni)		7440-02-0	0.0000274				
		Silver (Ag)		7440-22-4	0.0000162				
		Gold (Au)		7440-57-5	0.0000071				
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231				
		Epoxy resin		-	0.0000629				
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586				
		<b>Total Weight (g):</b>			<b>0.079173</b>				

MDDS Form Lab Test Data EDoC EXAMPLE - MDDS (1) EXAMPLE - MDDS (2) Lookups Definitions +



# Using the Macro

Any Errors will be Highlighted in Red, and the Tab color changes to Red, suggesting errors must be corrected before proceeding

Material Data Declaration Sheet									
Date	02-05-25								
Product Line	Category 1								
Sandisk Part Number	12345								
Supplier Part Number	ABCDE								
Product Description	Enter description here								
Product Revision	Revision no								
Product Total Weight (g)	87220.000000								
Contact Information	Company	Enter supplier company name							
	Sandisk Supplier Code	Enter supplier company code							
	Contact Name	Name							
	Address	Enter address here							
	Email								
Phone Number	123-456-7890								
Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Is this substance a process chemical
Mold compound	0.0384	Silica (amorphous)		60676-86-0	0.034061				
		Epoxy resin		29690-82-2	0.002347				
		Phenol resin		9003-35-4	0.0019602				
		Carbon black		1333-86-4	0.0001181				
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775				
		Iron (Fe)		7439-89-6	0.0008164				
		Silver (Ag)		7440-22-4	0.0001521				
External plating	34005	Tin (Sn)		7440-31-5	5.90245				
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503				
		Nickel (Ni)		7440-02-0	0.0000274				
		Silver (Ag)		7440-22-4	0.0000162				
		Gold (Au)		7440-57-5	0.0000071				
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231				
		Epoxy resin		-	0.0000629				
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586				
		Total Weight (g):			0.079173				

# Using the Macro

In the Lab Test Data sheet, fields highlighted below will be Auto Populated

**SANDISK™** Check Input +1 Result Table

<b>Sandisk Part Number</b>	12345
<b>Supplier Part Number</b>	ABCDE
<b>Supplier Name</b>	plier company name

**Attach Lab test report (in zip file) in**

**Reminder to suppliers:**  
1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9)  
2) Provide the lab test report reference number at Column E respectively

Components	Subpart	Homogenous materials	Lab test reports	Test Results		
	N/A	Mold compound		Element	Lead	Mercury
				Result	ND	ND
				Test Date MM/DD/YYYY		
				RoHS exemption		
	N/A	Leadframe		Element	Lead	Mercury
				Result	ND	ND
				Test Date MM/DD/YYYY		
				RoHS exemption		

# Using the Macro

Fill only the Test Results Data, and click “Check Input”

Check Input

+1 Result Table

Sandisk Part Number	12345
Supplier Part Number	ABCDE
Supplier Name	Supplier company name

Attach Lab test report (in zip file) in	
---	--

**Reminder to suppliers:**

- 1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9)
- 2) Provide the lab test report reference number at Column E respectively

Components	Subpart	Homogenous materials	Lab test reports	Test Results		
	N/A	Mold compound		Element	Lead	Mercury
				Result	ND	ND
				Test Date MM/DD/YYYY		
				RoHS exemption		
	N/A	Leadframe		Element	Lead	Mercury
				Result	ND	ND
				Test Date MM/DD/YYYY		
				RoHS exemption		



# Using the Macro

The Tab color changes to Green suggesting the Entered Data is Error Free

**SANDISK™** Check Input +1 Result Table


Sandisk Part Number	12345	Reminder to suppliers: 1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9) 2) Provide the lab test report reference number at Column E respectively
Supplier Part Number	ABCDE	
Supplier Name	plier company name	
Attach Lab test report (in zip file) in		

Components	Subpart	Homogenous materials	Lab test reports	Test Results											
				Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBOEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	
N/A	Mold compound			Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	
				RoHS exemption											
				Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBOEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	
N/A	Leadframe			Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	
				RoHS exemption											
				Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBOEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	

MDDS Form **Lab Test Data** FD2C EXAMPLE - MDDS (1) EXAMPLE - MDDS (2) Lookups Definitions

# Using the Macro

Errors or Missing Data if any, are highlighted in Red, and the Tab color changes to Red, suggesting errors must be corrected before proceeding



Check Input
+1 Result Table


<b>Sandisk Part Number</b>	12345	<b>Reminder to suppliers:</b> 1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9) 2) Provide the lab test report reference number at Column E respectively
<b>Supplier Part Number</b>	ABCDE	
<b>Supplier Name</b>	plier company name	
<b>Attach Lab test report (in zip file) in</b>	<input style="width: 100%;" type="text"/>	

Components	Subpart	Homogenous materials	Lab test reports	Test Results	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBDEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	hexhalogen - Phthalates
	N/A	Mold compound		Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBDEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	hexhalogen - Phthalates
	N/A	Leadframe		Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	N/A	Leadframe		Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024
	N/A	Leadframe		RoHS exemption											
	N/A	Leadframe		Element	Lead	Mercury	Cadmium	Chromium(VI)	PBBs	PBDEs	Antimony	halogen - Bromine	halogen - Chlorine	halogen - Fluorine	hexhalogen - Phthalates
	N/A	Leadframe		Result	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	N/A	Leadframe		Test Date MM/DD/YYYY	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024	10-07-2024
	N/A	Leadframe		RoHS exemption											

# Using the Macro

In the Lab Test Data sheet, use the “+1 Result Table” button to add an extra Result Table if required



Check Input+1 Result Table

---

Sandisk Part Number	12345
Supplier Part Number	ABCDE
Supplier Name	upplier company name

Attach Lab test report (in zip file) in Cell C9	
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**Reminder to suppliers:**

- 1) Suppliers are required to zip all the relevant test reports and attached in this MDDS (Cell C9)
- 2) Provide the lab test report reference number at Column E respectively

Components	Subpart	Homogenous materials	Lab test reports	Test Results	
	N/A	Mold compound		Element	Lead
				Result	ND
				Test Date MM/DD/YYYY	10-07-2024
				RoHS exemption	
	N/A	Leadframe		Element	Lead
				Result	ND
				Test Date MM/DD/YYYY	10-07-2024
				RoHS exemption	

# Using the Macro

In the EDoC Sheet, there are 18 questions that needs to be answered, after which the Tab color changes to Green

		<b>SANDISK™</b>
		<b>EDoC</b>
		<b>Environmental Declaration of Conformity</b>
<b>1</b>	<b>Scope</b> This declaration form applies to all Materials, Parts, Products & Packaging supplied to Sandisk and is used to verify compliance to environmental requirements in 01-01-WW-00-00002 Rev 21	
	<b>Environmental Compliance Declaration :</b> By submitting this document, Supplier represents and warrants to SanDisk that all information in this document, including the "Full Material Disclosure" in the MDDS, is accurate and without omission.	
<b>2</b>	<b>Environmental Compliance</b>	<b>YES/ NO</b>
<b>1</b>	RoHS Compliance as per EU Directive 2011/65/EU or the latest Comment:	<b>YES/ NO</b>
<b>2</b>	Does part contain any substance listed in the current REACH SVHC Candidate List? Comment:	<b>YES/ NO</b>
<b>3</b>	Compliance to Halogen-free - BFR/CFR/PVC; Br < 900 ppm, Cl < 900 ppm, Cl in the form of PVC < 900 ppm, Br + Cl < 1500 ppm Comment:	<b>YES/ NO</b>
<b>4</b>	Red-Phosphorus Free : Red-P < 1000 ppm Comment:	<b>YES/ NO</b>
<b>5</b>	Antimony TriOxide Free : Sb2O3 (CAS # 1309-64-4) < 700 ppm Comment:	<b>YES/ NO</b>
<b>6</b>	Banned Substances Free for the prohibited substances listed in SanDisk -Sandisk (01-01-WW-00-00002 Rev 21) Comment:	<b>YES/ NO</b>
<b>7</b>	Responsible Minerals - Gold, Tantalum, Tin, Tungsten and Cobalt present in the part/product/packaging Comment:	<b>YES/ NO</b>
<b>8</b>	Nanomaterial Compliance as defined by 2011/696/EU : Nanomaterial is "a natural, incidental, or manufactured material that contains particles in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm-100 nm (nanometres)". Comment:	<b>YES/ NO</b>
<b>9</b>	Recycle Marking on Plastic Parts weighing > 25 g as per ISO 11469 "Plastics - Generic identification and marking of plastics products"	<b>Brnze/Silver/Gold/NA</b>

# Using the Macro

Once all the Data is Filled, and the First three Tabs turn Green, click “Export” in the MDDS Form Sheet

**Material Data Declaration Sheet** Check Input + 10 Rows RESET Export **SANDISK™**

Date: 02-05-25  
Product Line: Category 1  
Sandisk Part Number: 12345  
Supplier Part Number: ABCDE  
Product Description: Enter description here  
Product Revision: Revision no

Product Total Weight (g): 0.157000

Contact Information  
Company: Enter supplier company name  
Sandisk Supplier Code: Enter supplier company code  
Contact Name: Name  
Address: Enter address here  
Email:   
Phone Number: 123-456-7890

Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Is this substance a process chemical
Mold compound	0.0384	Silica (amorphous)		60676-86-0	0.034061				
		Epoxy resin		29690-82-2	0.002347				
		Phenol resin		9003-35-4	0.0019602				
		Carbon black		1333-86-4	0.0001181				
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775				
		Iron (Fe)		7439-89-6	0.0008164				
		Silver (Ag)		7440-22-4	0.0001521				
External plating	0.0008164	Tin (Sn)		7440-31-5	0.0008164				
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503				
		Nickel (Ni)		7440-02-0	0.0000274				
		Silver (Ag)		7440-22-4	0.0000162				
		Gold (Au)		7440-57-5	0.0000071				
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231				
		Epoxy resin		-	0.0000629				
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586				
				Total Weight (g):	0.157000				

MDDS Form Lab Test Data EDoC EXAMPLE - MDDS (1) EXAMPLE - MDDS (2) Lookups Definitions

# Using the Macro

Select a Folder to Export the File

The screenshot shows a Windows File Explorer window titled "Select a Folder" with the address bar set to "This PC > Documents". The left sidebar shows a tree view with "Box Sync" expanded, containing folders like "Automation", "Compliance Map", "GEMS", "PPTs", "Projects", "Regulations", "Reports", and "Training". Below "Box Sync" are "This PC" and "Network". The main pane shows a list of folders: "Custom Office Templates" (modified 3/12/2019 11:05 AM) and "MyJabberFiles" (modified 4/11/2019 3:27 PM). The "Folder name" field at the bottom contains the text "Documents".

In the background, an Excel spreadsheet is visible with a ribbon. The "Styles" group contains a "RESET" button (orange) and an "Export" button (blue). Below the ribbon, columns F and G are visible, with "RESET" and "Export" buttons placed in cells F6 and G6 respectively.

12	Contact Information	Address	Enter Address Here				
13		Email	<a href="#">Name@Company.com</a>				
14		Phone Number	123-456-7890				
15	Homogeneous Subcomponent	Homogeneous Subcomponent Weight	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level

# Using the Macro

Enter the Filename, Select the Extension (XLS or XLSX), and click “Ok”

Material Data Declaration Sheet Check Input + 10 Rows RESET Export **SANDISK™**

Date	02-05-25					
Product Line	Category 1					
Sandisk Part Number	12345					
Supplier Part Number	ABCDE					
Product Description	Enter description here					
Product Revision	Revision no					
Product Total Weight (g)	0.157000					
Contact Information	Company	Enter supplier company name				
	Sandisk Supplier Code	Enter supplier company code				
	Contact Name	Name				
	Address	Enter address here				
	Email					
Phone Number	123-456-7890					
Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Num		
	Mold compound	0.0384	Silica (amorphous)		60676-86-1	
			Epoxy resin		29690-82-2	0.000347
			Phenol resin		9003-35-4	0.0019602
			Carbon black		1333-86-4	0.0001181
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775	
		Iron (Fe)		7439-89-6	0.0008164	
		Silver (Ag)		7440-22-4	0.0001521	
External plating	0.0008164	Tin (Sn)		7440-31-5	0.0008164	
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503	
		Nickel (Ni)		7440-02-0	0.0000274	
		Silver (Ag)		7440-22-4	0.0000162	
		Gold (Au)		7440-57-5	0.0000071	
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231	
		Epoxy resin		-	0.0000629	
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586	
		Total Weight (g):			0.157000	

Export File

Selected Folder  
J:\Users\1000260352\Desktop

Enter File Name  
FileName

xlsx  
 xls

OK Cancel

Homogeneous PPM Level EU RoHS Exemption Purpose and Location Is this substance a process chemical

MDDS Form Lab Test Data EDoC EXAMPLE - MDDS (1) EXAMPLE - MDDS (2) Lookups Definitions

# Using the Macro

Use “+10 Rows” Button to add rows while entering Material Declaration Data

**Material Data Declaration Sheet**

Check Input
+ 10 Rows
RESET
Export

**SANDISK™**

Date	02-05-25	
Product Line	Category 1	
Sandisk Part Number	12345	
Supplier Part Number	ABCDE	
Product Description	Enter description here	
Product Revision	Revision no	
Product Total Weight (g)	0.157000	
Contact Information	Company	Enter supplier company name
	Sandisk Supplier Code	Enter supplier company code
	Contact Name	Name
	Address	Enter address here
	Email	
Phone Number	123-456-7890	

Homogeneous Subcomponent	Homogeneous Subcomponent Weight (g)	Substances	Substances - Other Names	CAS Number	Substance Weight (g)	Homogeneous PPM Level	EU RoHS Exemption	Purpose and Location	Is this substance a process chemical
Mold compound	0.0384	Silica (amorphous)		60676-86-0	0.034061				
		Epoxy resin		29690-82-2	0.002347				
		Phenol resin		9003-35-4	0.0019602				
		Carbon black		1333-86-4	0.0001181				
Leadframe	0.0356	Copper (Cu)		7440-50-8	0.0346775				
		Iron (Fe)		7439-89-6	0.0008164				
		Silver (Ag)		7440-22-4	0.0001521				
External plating	0.0008164	Tin (Sn)		7440-31-5	0.0008164				
Die	0.002801	Silicon (Si)		7440-21-3	0.0027503				
		Nickel (Ni)		7440-02-0	0.0000274				
		Silver (Ag)		7440-22-4	0.0000162				
		Gold (Au)		7440-57-5	0.0000071				
Die attach	0.000386	Silver (Ag)		7440-22-4	0.0003231				
		Epoxy resin		-	0.0000629				
Bonding wire	0.000586	Copper (Cu)		7440-57-5	0.000586				
		Total Weight (g):			0.157000				

MDDS Form
Lab Test Data
EDoC
EXAMPLE - MDDS (1)
EXAMPLE - MDDS (2)
Lookups
Definitions
+



# Using the Macro

Use "Reset" Button to clear all data entered in the first three sheets

Material Data Declaration Sheet Check Input + 10 Rows RESET Export **SANDISK™**

Date: 02-05-25  
Product Line: Category 1  
Sandisk Part Number: 12345  
Supplier Part Number: ABCDE  
Product Description: Enter description here  
Product Revision: Revision no

Product Total Weight (g): 0.157000

Contact Information:  
Company: Enter supplier company name  
Sandisk Supplier Code: Enter supplier company code  
Contact Name: Name  
Address: Enter address here  
Email:   
Phone Number: 123-456-7890

Homogeneous Subcomponent:

Homogeneous Subcomponent Weight (g)	Substances	EU RoHS Exemption	Purpose and Location	Is this substance a process chemical
Mold compound	0.0384	Silica (amorphous)		
		Epoxy resin		
		Phenol resin		
		Carbon black		
Leadframe	0.0356	Copper (Cu)		
		Iron (Fe)		
		Silver (Ag)		
External plating	0.0008164	Tin (Sn)		
Die	0.002801	Silicon (Si)		
		Nickel (Ni)		
		Silver (Ag)		
		Gold (Au)		
Die attach	0.000386	Silver (Ag)		
		Epoxy resin		
Bonding wire	0.000586	Copper (Cu)		
		<b>Total Weight (g):</b>		

Warning: This will clear all the entered data in all the sheets. Do you want to Continue?  
Yes No

MDDS Form | Lab Test Data | EDoC | EXAMPLE - MDDS (1) | EXAMPLE - MDDS (2) | Lookups | Definitions

