

# GreenData Manager®

## Workgroup Edition

### Environmental Compliance Data Collection and Management Tool For EU RoHS, EU REACH SVHC, and Other Regulations

#### The Challenge: Compliance with EU RoHS, EU REACH and more

Complying with global chemical regulations and directives like **EU RoHS** and **EU REACH SVHC** is difficult. Regulations evolve, customers have unique reporting requirements, and collecting and updating information is not easy.

The best way to manage compliance is to collect full material disclosure data (FMD) for all components from suppliers. But how do you manage the data? How do you use the data to prove compliance? And how do you share that information across the enterprise?

#### The Solution: GreenData Manager

**GreenData Manager Workgroup Edition** is a powerful client-server application tailored for medium to large enterprises.

- ✓ Manage the collection and storage of compliance data and documents.
- ✓ Perform compliance validation and substance analysis for 24 built-in regulations like **EU RoHS**, **China RoHS**, **EU REACH SVHC**, **California Proposition 65**, **Halogen Free** and many more. Or define your own rules per your customers' requirements.
- ✓ Generate compliance reports and full disclosure reports at the product/BOM and company level.
- ✓ Install at your facility behind company firewall so data/BOMs security are protected.
- ✓ Import compliance data automatically and import BOMs from ERP/PLM software programs automatically (optional).

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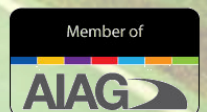
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## GreenData Manager Workgroup Edition Benefits

**GreenData Manager (GDM) Workgroup Edition** is an inexpensive comprehensive solution for global regulation compliance and product full disclosure of chemical substances in one easy-to-use package.

The software can be tailored to fit your company needs such as easily integrating with common PLM or ERP systems. The centralized component database for chemical substance data can be accessed by multiple users in the same network. You also have the option to expand the workgroup access globally with Internet users.

## Flexible Packages to Fit Your Needs

### Starter Package

- Server + 2-seat license
- 1<sup>st</sup> year of Maintenance free
- Client side can be Windows 7/8/10
- Centralized database on MS SQL Server

### Extra

- Additional seat license is available
- Auto Download Module is available
- Auto BOM Import Module is available
- Conflict Minerals Module is available

## Feature Highlights

- Report the **completeness status** on the data or documents you have collected.
- Report the **compliance status** on all parts or BOMs and generate **compliance reports** for **EU RoHS, China RoHS, CA Prop 65, EU MDR, Halogen-Free, EU REACH Annex-14, EU REACH Annex-17, EU REACH SVHC** and many other regulations. Or define your own compliance rules per your customers' requirements.
- Receive **online updates** of changes to regulations and substance data so you're always dealing with the most up to date information.
- **Import** the component compliance data through Excel, IPC-1752 v1.1 XML or IPC-1752A XML, or have GreenSoft to collect the data and deliver to you through GreenSoft PartData XML format.
- Generate product level **full disclosure reports** to show the full list of chemicals used in products.
- Generate **product disclosure reports** in Excel, IPC-1752 v1.1 XML, IPC-1752A XML, and IEC 62474 XML formats.
- Keep **data securely stored** behind your own company firewall with the software downloaded on your own company server. All BOM level information is kept within your facility.
- Plus, **GDM** software now has the ability to **classify and process articles** per the updated definition of an "article" under **EU REACH**.

### Bonus:

Sign up for our **Data Services** and we'll collect and validate the data from your suppliers for you!

# A Complete Compliance Management System

For the full details of how GreenSoft's **GreenData Manager Workgroup Edition (GDM-WE)** can help you manage your data collection, compliance validation, substance analysis and product level full disclosure of chemical substances, read on for a step-by-step example of **GDM-WE** features.

## 1. Data Collection Management

- Import the data you have collected through Excel, IPC-1752v1.1, IPC-1752A XML, or ask GreenSoft to collect, validate and provide the data in GreenSoft's proprietary PartData format.
- Data can be imported automatically through Auto PartData Import module.
- Examine and validate EU RoHS-2 status and Exemption Status provided by suppliers.
- Validate the aggregated substance weight against the component weight or subpart weight with user-defined tolerance.
- Validate document collection status and expiration status; alert 30-days before documents expire.

## 2. Compliance Validation and Gap Analysis

- Determine compliance status of parts and BOMs immediately; Perform Gap Analysis on selected products (BOMs) for incomplete parts or non-compliant parts inside each BOM.
- Perform compliance validation on one of 24 Built-in regulations or define your own rule per your customer requirements.
- Perform compliance validation on one regulation for one BOM, or perform compliance validation on multiple regulations for multiple BOMs.
- Export compliance report and Gap Analysis report to Excel, or report BOM level compliance in IPC-1752A/IEC-62474.

**BOM Details**

Legend: ● OK/Passed ● Not Ready/Failed ● Invalid Entry/Incomplete ● Document Expired ● Passed with Exemption □ Subpart Info Incomplete ■ Subpart Failed

Level	BOM ID/IPN	MFG Name	MPN	2nd Source	BOM Name/Description	Match Status	Completion Status	EU RoHS Status	R2 Status	R3 Status	R4 Status	Coc Status	MCD Doc Status	Quantity
1	___1001-150				INTF BOARD#1	●	●	●	●	●	●	○	○	1
2	___0022-10036-02	VENKEL	C0603C0G500-2...		CAPACITOR, CERAMIC, 50V,...	●	●	●	●	●	●	●	●	15
2	___0022-10036-10	AVX	TAJA106K010R		CAP,3216,10 UF,10%,10V,TA...	●	●	●	●	●	●	●	●	8
2	___0022-10036-005	STMICROELECT...	STM811TW16F		IC,MPU RESET,3.08V TRIP,...	●	●	●	●	●	●	●	●	10
2	___0022-10036-005	MAXIM INTEGR...	MAX811TEUS+T	Y	IC,MPU RESET,3.08V TRIP,...	●	●	●	●	●	●	●	●	10
2	___0022-10036-12	ON SEMICOND...	1SMB170AT3G		ZENER TRANSIENT VOLTA...	●	●	●	●	●	■	●	●	2

### 3. Product Compliance Report

- Validate compliance at product level on a specific compliance regulation or any customer-specific requirements.
- Roll-up weight and ppm for each substance or substance group at product level or at component level (for the new component level EU interpretation of the REACH SVHC regulation).
- Generate compliance status for each substance or substance group at product level.
- Conduct partial analysis during the data collection process and generate “GAP Analysis” report for incomplete parts.
- Perform Failure Analysis on BOMs that fail to comply with regulations or customer requirements and generate report.

**BOM SVHC Report**  
Generates an SVHC report for the selected BOM. You could then export the report to Excel. Double-click a row to generate the Substance Analysis Report.

**Action Panel**

Rule Name: REACH SVHC (170) - Proposed Generate Close

Rule Type:  Component Level  Article Level \* Mass has been calculated by aggregation.

BOM Profile: BOM ID: C15  
BOM Name: Control Board M590, DIV-15-1  
Revision:  
Mass (g): 96.2634788 \* Worst case concentration assumed for parts with REACH SVHC declarations

Exclude parts with incomplete information Export

Item No	Type	Substance Name	CAS Number	EC Number	Threshold	Units	Compliance Status	Concentration (ppm)	Weight (mg)
1	Substance	4-Aminoazobenzene; 4-Phenyl...	60-09-3	200-453-6	1000.000	ppm	Passed	0.000	0.0000000
2	Substance	4,4'-Methylene-bis-(2-chloro-an...	101-14-4	202-918-9	1000.000	ppm	Passed	0.000	0.0000000
3	Substance	4,4'-methylenedianiline	101-77-9	202-974-4	1000.000	ppm	Passed	0.000	0.0000000
4	Substance	4,4'-oxydianiline and its salts	101-80-4	202-977-0	1000.000	ppm	Passed	0.000	0.0000000
5	Substance	6-methoxy-m-toluidine (p-cresi...	120-71-8	204-419-1	1000.000	ppm	Passed	0.000	0.0000000
6	Substance	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	1000.000	ppm	Passed	0.000	0.0000000
7	Substance	O-anisidine	90-04-0	201-963-1	1000.000	ppm	Passed	0.000	0.0000000
8	Substance	Biphenyl-4-ylamine	92-67-1	202-177-1	1000.000	ppm	Passed	0.000	0.0000000

### 4. Due Diligence Report for EU RoHS-2

- Generate BOM level due diligence reports as part of the technical documents for CE Mark per EN50581:2012.
- List unique parts list from the BOM with EU RoHS compliance status and due diligence documents such as Certificates of Compliance (CoC) or lab test reports or FMD documents. All documents are hyperlinked and accessible through simple clicks.

Item No	Internal PN	Manufacturer Name	Manufacturer PN	Description	2ND	QTY	Units	EU RoHS Status	EU RoHS CoC Status	EU RoHS PoC Status	Exemptions
1	0022-10034-22	ON SEMICONDUCTOR	TL431AIDG	IC, ADJUSTABLE PRECISION SHUNT REGULATOR, 2.5 to 36 V, SO-8 Package, 30ppm; RoHS Compliant	N	3	each	Passed	<a href="#">CoC2_ON_TL431AIDG.pdf</a>	Not Present	
2	0022-10036-005	MAXIM INTEGRATED PRODUCTS	MAX811TEUS+T	IC,MPU RESET,3.08V TRIP,SOT-143-4,RoHS COMPLIANT	N	14	each	Passed	<a href="#">CoC2_MAXIM_MAX811TEUS+T.pdf</a>	Not Present	
3	0022-10036-02	VENKEL	C0603C0G500-220JNP	CAPACITOR, CERAMIC, 50V, COG, 5%, 0603, 22 P F, ROHS COMPLIANT	N	15	each	Passed	<a href="#">CoC_VENKEL_C0603C0G500-220JNP.pdf</a>	Not Present	
4	0022-10036-10	AVX	TAJA106K010R	CAP,3216,10 UF,10%,10V,TANT,RoHS COMPLIANT	N	8	each	Passed	<a href="#">CoC_AVX_TAJA106K010R.pdf</a>	Not Present	
5	0022-10036-12	ON SEMICONDUCTOR	1SMB170AT3G	ZENER TRANSIENT VOLTAGE SUPPRESSOR, 170V, 600W, DO-214AA, ROHS COMPLIANT	N	2	each	Passed with Exemption	<a href="#">CoC2_ON_1SMB170AT3G</a>	Not Present	R2-7a
6	0022-10036-18	NICCOMP	NMC0805NPO102J100TRPLPF	CAP,0805,1.0 NF,5%,100V,COG,RoHS COMPLIANT	N	4	each	Passed	<a href="#">CoC2_NICCOMP_NMC0805NPO102J100TRPLPF.pdf</a>	Not Present	
7	0022-10036-20	ROHM	RLS4148TE11C	Diode, Silicon Switching, 100V, 100mA, 500mW, 4nS, JEDEC LL-34 package, Operating Junction Temperature Rang	N	2	each	Passed with Exemption	<a href="#">CoC_ROHM_RLS4148TE11C.pdf</a>	Not Present	R2-7c1

## 5. Product Level Full-Disclosure

- List of all substances used in the product (Product DNA).
- Roll-up weight and ppm for each substance to product level.
- Product level RoHS-2 compliance status included.
- Product level SVHC compliance status included.
- Export product level full-disclosure report to Excel, IPC-1752v1.1, IPC-1752A, or IEC 62474 XML format.
- Exception Report lists parts unable to be included in product rollup.

**Product Level Disclosure**  
Generates Product Level Full Disclosure for the selected BOM. Export the report to Excel or to IPC-1752 Class-6 XML or IPC-1752A XML.  Mask Trade Secret Substances Close

**Product Profile**  
BOM ID: C15 BOM Name: Control Board M590, DIV-15-1 Project: Backup BOM  
Revision: BOM Mass (g): 96.2634788 Unique Parts Count: 17

**EU RoHS Profile**  
EU RoHS Status:  Passed with Exemption \* Excluding 2nd sources & incomplete parts. Exceptions: None Exception Report Exemptions: R2-7a, R2-7c1 Exception Report

**EU RoHS-2 New Substances Profile**  
EU RoHS-2 New Substances Status:  Passed \* Excluding 2nd sources & incomplete parts. Exceptions: 10 Exception Report

**REACH SVHC Profile**  
Rule Name: REACH SVHC (163) REACH SVHC Status:  Passed \* Excluding 2nd sources & incomplete parts. Exceptions: 8 Exception Report

**Full Material Declaration**

**Supplier & Declaration Information**  
Name: betty  
Company ID:  
Unique ID:  
Site URL:

**Article Level Export**  
IEC 62474  
IPC 1752  
IPC 1752A  
Excel

**Translation for Homogeneous Exports**  
Manufacturer Name: Actual Manufacturer Name  
Manufacturer PN: Actual Manufacturer PN  
Export BOM as: As a Flat Parts List **IPC 1752A only**  
 Include 2nd Source *Quantity multiplier will be 0 for the 2nd source*  
 Include parts with no FMD but with RoHS or REACH SVHC data

**Homogeneous Export**  
IEC 62474  
IPC 1752  
IPC 1752A  
Excel

**Article Level Substance Disclosure Table** Disclosure Exceptions: None Exception Report Other Substances List Proprietary Substances List

#	Substance Name	CAS Number	Mass (g)	Concentration (ppm)
1	Nickel	7440-02-0	0.0835444	867.872
2	Barium titanium trioxide	12047-27-7	0.0008415	8.742
3	Calcium oxide	1305-78-8	0.0091136	94.674
4	Quartz (SiO2)	14808-60-7	0.0264656	274.929
5	Tin	7440-31-5	1.3217940	13731.002
6	Titanium dioxide	13463-67-7	0.0012152	12.623
7	Zirconium dioxide	1314-23-4	0.0303788	315.579
8	Copper	7440-50-8	62.7419832	651773.487
9	Trimanganese tetraoxide	1317-35-7	0.0030379	31.558
10	Frits, chemicals	65997-18-4	0.0003676	3.819
11	Strontium oxide	1314-11-0	0.0078985	82.051

## 6. Automation of PartData Import & BOM Import (optional)

- Complete automation of importing the PartData files if GreenSoft is doing data collection for you.
- Complete automation of importing BOMs from your ERP/PLM system.
- Frees you from manual work of updating PartData. Simply select the desired BOM and click to generate compliance reports instantly.

**Auto Downloader Setting**  
 Automatically detect proxy  Manually specify proxy  
Customer key: 1eeea694f-16aa-48d8-9d27-70c241172452 Test Connection  
Proxy Settings  
Proxy address  
Proxy port  
Domain (if required)  
Username (if required)  
Password (if required)  
Configuration Preferences  
Frequency to check for new data files (minutes):  Check Now

**PartData Sync Statistics**  
Description  
Number of Part Numbers in IM  
Number of Manufacturers in IM  
MCD Type as 'Full Disclosure'  
MCD Type as 'REACH SVHC'  
Lifecycle Status as 'Active'  
Lifecycle Status as 'Obsolete'  
EU RoHS Status as 'Passed'  
EU RoHS Status as 'Passed with Exemption'  
EU RoHS Status as 'Failed'  
Exception Status  
Queued  
Download Error  
Import Error

**BOM Folder Import Settings**  
Folder to monitor:  Browse  
Frequency to monitor: 5 minutes  
Location setting:  Global  Based on Child Folder Name  
Use column mapping from user: admin Configure  
Auto pick second sources:  
 Auto Pick Second Sources in Item Master based on Data Collection Status (in System Parameter settings)  
 Auto Pick Second Sources in Item Master based on a compliance rule  
Compliance Rule: <Not Selected>  
 Reset Primary Source selection in BOM  
 Associate Second Sources in BOM  
 Auto Pick Second Sources in BOM based on a compliance rule  
Compliance Rule: <Not Selected>

## Minimum Requirements

### Server:

- Windows Server 2003/2008/2012 (including R2)/2016
- .NET Framework 2.0 and 3.5
- Microsoft SQL Server 2005/2008/2012/2014 Standard/Enterprise Edition
- CPU: Dual or Quad Core with 2 GHz or above
- RAM: 8 GB or above
- HD: 100 GB or above

### Client:

- MS Windows XP or MS Windows Vista or Windows 7/8/10 or Windows Server 2003/2008/2012 (including R2)/2016
- .NET Framework 2.0 and 3.5
- Adobe Acrobat Reader V 9.0 or above
- Microsoft Office tools (such as Excel)
- CPU: 2 GHz or above; RAM: 2 GB or above; HD: 100 MB or above

Get started with a FREE Risk Analysis & BOM Scrub!  
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