GreenSoft
TECHNOLOGY, INC.

Your Partner in Compliance

GREENDATA MANAGER® SOFTWARE WORKGROUP EDITION

Environmental Compliance Data Management Reporting Tool for EU RoHS, EU REACH, and Other Regulations

The Challenge: Compliance with EU RoHS, EU REACH, and More

Complying with global chemicals regulations and directives such as **EU RoHS** and **EU REACH** 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 (FMD)** data for all components in your products. But how do you collect that data from suppliers? How do you manage and store the data? And how do you share that information across the enterprise?

The Solution: GreenData Manager Workgroup Edition (GDM-WE) Software

GreenData Manager Workgroup Edition (GDM-WE) software is a powerful client-server application tailored for medium to large enterprises. **GDM-WE** offers an inexpensive, comprehensive solution for global regulation compliance and product full disclosure of chemical substances in one easy-to-use package.

The centralized component database for chemical substance data within **GDM-WE** can be accessed by multiple users in the same network, allowing you to:

- Manage the collection and storage of compliance data and documents.

- Perform compliance validation and substance analysis for 27 built-in regulations, including **EU RoHS**, **EU REACH SVHC/Annex-17/Annex-14**, **California Proposition 65**, **China RoHS**, and others. Or define your own rules per your customers' requirements.

- Generate compliance reports and full disclosure reports at the product-level, product family-level, or company-level.

- Install at your facility behind your company firewall so that your data and BOMs are securely protected.

- Import compliance data automatically, and import BOMs from ERP/PLM software programs automatically (optional).

- Integrate with common PLM or ERP systems.

GREENDATA MANAGER WORKGROUP EDITION (GDM-WE)

Flexible Packages to Fit Your Needs

GreenData Manager Workgroup Edition (GDM-WE) can be scaled to meet your company's requirements:

Starter Package

- Server + 2-seat license
- 1st year of Maintenance free
- Client side can be Windows 10/11
- Centralized database on MS SQL Server

Additional Options

- 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 that you have collected. **BONUS**: Sign up for our **Data Services**, and GreenSoft's data collection team will collect and validate the data from your suppliers for you!

- Report the **compliance status** on all parts or BOMs, and generate compliance reports for **EU RoHS**, **EU REACH SVHC/Annex-17/Annex-14**, **California Proposition 65**, **China RoHS**, and others. Or define your own 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** or **IPC-1752A XML**, or have GreenSoft 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** or **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-WE software has the ability to **classify and process articles** per the updated definition of an "article" under EU REACH.

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GREENDATA MANAGER WORKGROUP EDITION (GDM-WE)

A Complete Compliance Management System

For the full details on how **GreenData Manager Workgroup Edition (GDM-WE)** can help your company management 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-1752 or IPC-1752A XML, or have GreenSoft collect the data and deliver to you through GreenSoft PartData XML format.

- Data can be imported automatically through the Auto PartData Import Module (optional).

- Examine and validate EU RoHS status and Exemption Status provided by suppliers.

- Validate the aggregated substance weight against the component weight or subpart weight with user-defined tolerance.

- Validate the document collection status and expiration status. Receive alerts 30-days before documents expire.

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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-compliance parts inside each BOM.
- Perform compliance validation on one of 27 built-in regulations, or define your own rules per your customers' requirements.
- Perform compliance validation on one regulation for one BOM, or multiple regulations for multiple BOMs.
- Export compliance report and Gap Analysis report to Excel, or report BOM-level compliance in IPC-1752A/IEC 62474 formats.

BOM Details

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

Level	BOM ID/IPN	MFG Name	MPN	MFG Code	2nd Source	BOM Name/Description	Excluded	Match Status	Requirement Status	EU RoHS Status	R2 Status	R3 Status	R4 Status	Quantity
0	C15-Simple					Control Board M590 , DIV-15-1		●	●	●	●	●	●	
1	__1001-150							●	●	●	●	●	●	1
2	___0022-10036-02	VENKEL	C0603C0G500-2...			CAPACITOR, CERAMIC, 50V, C0...	No	●	●	●	●	○	●	15
2	___0022-10036-10	AVX	TAJA106K010R			CAP,3216,10 UF,10%,10V,TANT...	No	●	●	●	●	○	●	8
2	___0022-10036-005	MAXIM INTEGRATED PRO...	MAX811TEUS+T			IC,MPU RESET,3.08V TRIP,SO...	No	●	●	●	●	○	●	10
2	___0022-10036-12	ON SEMICONDUCTOR	1SMB170AT3G			ZENER TRANSIENT VOLTAGE ...	No	●	●	●	○	○	●	2

3) Product Compliance Report

- Validate compliance at the product-level on a specific compliance regulation or any customer-specific requirements.
- Roll-up weight and ppm for each substance or substance group at the product-level or at the component-level (as required for article analysis per the interpretation/definition of an "article" under the EU REACH regulation).
- Generate compliance status for each substance or substance group at the product-level.
- Conduct partial analysis during the data collection process and generate Gap Analysis report for incomplete parts.

See example BOM SVHC Report screenshot on the next page.

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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 (235)

BOM Profile: BOM ID: C15-Simple
BOM Name: Control Board M590 , DIV-15-1
Revision:
Project Name:
Mass (g): 98.116292000000
Location: Global

Generate   Close

* BOM Mass has been calculated by aggregation.

Export

☑ Exclude parts with incomplete information
☐ Include 2nd Source

Exception Report

Item No	Type	Substance Name	CAS Number	EC Number	Threshold	Units	Compliance S
1	Substance	triethyl arsenate	15606-95-8	427-700-2	1000.000	ppm	Passed
2	Substance	Sodium dichromate	10588-01-9	234-190-3	1000.000	ppm	Passed
3	Substance	lead hydrogen arsenate	7784-40-9	232-064-2	1000.000	ppm	Passed
4	Group	Hexabromocyclododecane (HBCDD)			1000.000	ppm	Passed
5	Substance	Dibutyl phthalate (DBP)	84-74-2	201-557-4	1000.000	ppm	Passed

4) Due Diligence Report for EU RoHS

- Generate BOM-level due diligence reports as part of the technical documents for CE Mark per IEC EN 63000.

- 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 Source	Quantity	Units	Match Status	EU RoHS Status	EU RoHS CoC Status	EU RoHS PoC Status	EU RoHS PoC Notes	EU RoHS PoNC Status
1	0022-10036-02	VENKEL	C0603C0G500-220JNP	CAPACITOR, CERAMIC, 50V, C0G, 5%, 0603, 22 PF, ROHS COMPLIANT	N	39	EA	Exact Match	Passed	CoC10_VENKEL_C0603C0G500-220JNP_060119.pdf	Not Present		Not Present
2	0022-10036-10	AVX	TAJA106K010R	CAP,3216,10 UF,10%,10V,TANT,RoHS COMPLIANT	N	23	EA	Exact Match	Passed	CoC10_AVX_TAJA106K010R_111222.pdf	Not Present		Not Present
3	0022-10036-12	ON SEMICONDUCTOR	1SMB170AT3G	ZENER TRANSIENT VOLTAGE SUPPRESSOR, 170V, 600W, DO-214AA, ROHS COMPLIANT	N	2	EA	Exact Match	Incomplete	Not Present	Not Present		Not Present
4	0022-10036-18	NICCOMP	NMC0805NPO102J100TRPLPF	CAP,0805,1.0 NF,5%,100V,C0G,RoHS COMPLIANT	N	12	EA	Exact Match	Passed	CoC10_NIC_NMC0805NPO102J100TRPLPF_111222.pdf	Not Present		Not Present
5	0022-10036-20	ROHM	RLS4148TE11C2		N	4	EA	Exact Match	Passed with Exemption	CoC2-S_ROHM_RLS4148TE11C_121213.pdf	Not Present		Not Present
6	0030-00150-001	VENKEL	CR0402-16W-6042FT	RES,0402,60.4K OHM,1%,1/16W,50V,RoHS COMPLIANT	N	7	EA	Exact Match	Passed with Exemption	CoC10_VENKEL_CR0402-16W-6042FT_060119.pdf	Not Present		Not Present
7	0030-00150-001	YAGEO	RC0402FR-0760K4L	RES,0402,60.4K OHM,1%,1/16W,50V,RoHS COMPLIANT	N	13	EA	Exact Match	Passed with Exemption	CoC10_YAGEO_RC0402FR-0760K4L_122819.pdf	Not Present		Not Present

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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 EU RoHS compliance status included.

- Product level EU REACH Substances of Very High Concern (SVHC) compliance status included.

- Export product level full-disclosure report to Excel, IPC-1752, IPC-1752A , or IEC 62474 XML format.

- Exception Report list for parts unable to be included in product rollup.

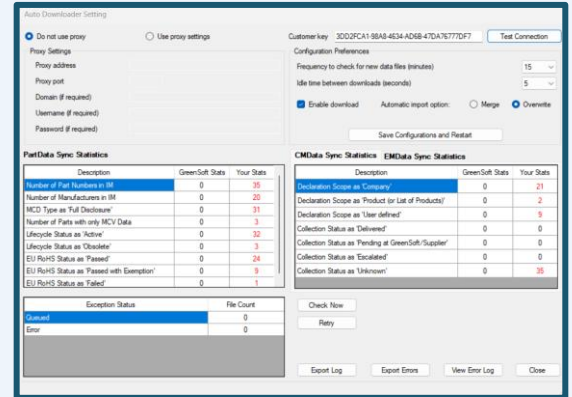| #	Substance Name	CAS Number	Mass (g)	Concentration (p...	MCV (ppm) at Co...	MCV (ppm) at Art...	MCV (ppm) at Ho...
1	Strontium oxide	1314-11-0	0.007898475000	80.501	110762.516	130000.000	130000.000
2	Calcium oxide	1305-78-8	0.009113625000	92.886	127802.903	150000.000	150000.000
3	Zirconium dioxide	1314-23-4	0.030378750000	309.620	426009.676	500000.000	500000.000
4	Titanium dioxide	13463-67-7	0.001253694000	12.778	17040.387	119788.608	119788.608
5	Quartz (SiO2)	14808-60-7	0.009113625000	92.886	127802.903	150000.000	150000.000
6	Trimanganese tetraoxide	1317-35-7	0.003037875000	30.962	42600.968	50000.000	50000.000
7	Nickel	7440-02-0	0.087764912311	894.499	305000.000	1000000.000	1000000.000
8	Barium titanium trioxide	12047-27-7	0.012281500000	125.173	823943.662	991285.403	991285.403
9	Copper	7440-50-8	62.670289177528	638734.790	670226.969	1000000.000	1000000.000
10	Glass (Lead free)		0.000367613400	3.747	5155.145	119900.000	119900.000
11	Tin	7440-31-5	1.313220400000	13384.326	49295.775	1000000.000	1000000.000

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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 the manual work of updating PartData. Simply select the desired BOM and click to generate compliance reports instantly.

Minimum Requirements

Server:
- Windows Server 2019/2022
- .NET Framework 4.8 or above
- Microsoft SQL Server 2016/2017/2019/2022 Standard/Enterprise Edition
- CPU: Dual or Quad Core with 2 GHz or above
- RAM: 8 GB or above
- HD space: 100 GB or above

Client:
- MS Windows 10/11 or Windows Server 2019/2022
- .NET Framework 4.8 or above
- Adobe Acrobat Reader or other compatible PDF Reader
- Microsoft Office tools (such as Excel)
- CPU: 2 GHz or above; RAM: 4 GB or above; HD space: 5 GB or above

GreenSoft TECHNOLOGY, INC.

IPC Member • bsi ISO/IEC 27001 Information Security Management CERTIFIED • ISO 9001:2015 Certified • RESPONSIBLE MINERALS INITIATIVE VENDOR MEMBER • AIAG member

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