

GreenData Manager®

Desktop Edition

Environmental Compliance Data Collection and Management Tool For RoHS-2, REACH SVHC, and Other Regulations

The Challenge: Compliance with RoHS-2, REACH SVHC and more

Complying with global chemical regulations and directives like **RoHS-2** and **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 Desktop Edition (GDM-DE) is a powerful desktop application that helps you:

- ✓ Manage the collection and storage of compliance data and documents
- ✓ Perform compliance validation and substance analysis for 22 built-in regulations like EU RoHS-2, China RoHS, REACH SVHC, Halogen Free and many more, or build your own rules
- ✓ Produce compliance reports and full disclosure reports at the product/BOM and company level
- ✓ Generate product-level due diligence packages
- ✓ Install at your facility behind company firewall so data/BOMs security are protected

GDM-DE is much more affordable than green compliance modules in ERP/PLM systems, and easily integrates with your existing ERP/PLM system.

Get started with a **FREE Risk Analysis & BOM Scrub!**
+1-323-254-5961 ♦ info@greensofttech.com

Corporate Headquarters

North America/Europe

GreenSoft Technology, Inc.
155 S. El Molino, Suite 100
Pasadena, CA 91101 USA
Tel: (323) 254-5961
info@greensofttech.com

Asia/China/Taiwan/Japan

Jon Wu
Tel: +886-920-618-568
jwu@greensofttech.com

Finland/Sweden/Norway

RoHS Management Oy
Tel: +358-44-981-2787
sales@rohsmanagement.com

Israel

Rokah Technologies
Tel: +972-3-9360688
reuven@rokah-technologies.com



VENDOR MEMBER

CORPORATE MEMBER

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-2, China RoHS,**

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

- Norway PoHS, Halogen-Free, REACH Annex-14, REACH Annex-17, 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.
- Provide a **substance analysis** on all items with **roll-up capability** in aggregating weight or ppm to the product/BOM and company levels.
- 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.

A Complete Compliance Management System

For the full details of how GreenSoft's **GDM-DE** can help you manage your product compliance data and documents, read on for a step-by-step example of **GMD-DE** 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 aggregated substance weight against component weight or subpart weight with user-defined tolerance.
- Validate document collection status and expiration status and alert 30-days before the documents expire.

The screenshot displays the 'Item Master' page in the GreenSoft GDM-DE application. At the top, there is a navigation bar with tabs for System, Item Master, BOM, Reports, Help, and Custom. The user is logged in as 'System Administrator'. Below the navigation bar, there are 'Page Highlights' and a 'Summary' section showing the number of parts and manufacturing items listed. The 'Search Panel' allows filtering by Internal PN, Manufacturer PN, and Description. The 'Rule Selection' section shows rules for EU RoHS, My Customer Rule, China RoHS, and Norwegian POHS. The 'Status Filter' section includes dropdowns for EU RoHS Status, R2, R3, R4, CoC Status, Completion Status, MCD Doc Status, and MCD Type. The 'Action Panel' provides links for adding new items, deleting, managing second sources, importing from Excel, importing part data, exporting part data, substance analysis, and SVHC reports. The 'Item Master List' table at the bottom contains the following data:

IPN	MFG	MFG PN	Description	Completion Status	EU RoHS Status	R2 Status	R3 Status	R4 Status	CoC Status	MCD Status	MCD Doc Status	MCD Type
0022-10034-22	ON SEMICONDUCTOR	TL431AIDG	IC, ADJUSTABLE PRECISION...	●	●	●	●	●	●	●	●	Full Disclosure
0022-10036-005	MAXIM INTEGRATED...	MAX811TEUS+T	IC,MPU RESET,3.08V TRIP,S...	●	●	●	●	●	●	●	●	Full Disclosure
0022-10036-005	STMICROELECTRON...	STM811TW16F	IC,MPU RESET,3.08V TRIP,S...	●	●	●	●	●	●	●	●	Full Disclosure
0022-10036-02	VENKEL	C0603C0G500-220JNP	CAPACITOR, CERAMIC, 50V, ...	●	●	●	●	●	●	●	●	Full Disclosure

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 22 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														
● : 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, ...	●	●	●	●	●	●	●	●	
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: <input checked="" type="radio"/> Component Level <input type="radio"/> 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						Export		* Worst case concentration assumed for parts with REACH SVHC declarations	
<input checked="" type="checkbox"/> Exclude parts with incomplete information									
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	CoC2_ON_TL431AIDG.pdf	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	CoC2_MAXIM_MAX811TEUS+T.pdf	Not Present	
3	0022-10036-02	VENKEL	C0603C0G500-220JNP	CAPACITOR, CERAMIC, 50V, COG, 5%, 0603, 22 PF, ROHS COMPLIANT	N	15	each	Passed	CoC_VENKEL_C0603C0G500-220JNP.pdf	Not Present	
4	0022-10036-10	AVX	TAJA106K010R	CAP, 3216, 10 UF, 10%, 10V, TANT, RoHS COMPLIANT	N	8	each	Passed	CoC_AVX_TAJA106K010R.pdf	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	CoC2_ON_1SMB170AT3G	Not Present	R2-7a
6	0022-10036-18	NICCOMP	NMC0805NPO102J100TRPLPF	CAP, 0805, 1.0 NF, 5%, 100V, COG, RoHS COMPLIANT	N	4	each	Passed	CoC2_NICCOMP_NMC0805NPO102J100TRPLPF.pdf	Not Present	
7	0022-10036-20	ROHM	RLS4148TE11C	Diode, Silicon Switching, 100V, 100mA, 500mW, 4nS, JEDEC LL-34 package, Operating Junction Temperature Range	N	2	each	Passed with Exemption	CoC_ROHM_RLS4148TE11.pdf	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

Page Highlights
Product Level Disclosure: Generates Product Level Full Disclosure for the selected BOM. Export the report to Excel or to IPC-1752 Class-5 XML.

Product Profile
 BOM ID: 800-001175-01 Export BOM
 BOM Name: Control Board B801 Close
 Revision:
 BOM Mass (g): 5.066054224 * Mass has been calculated by aggregation.
 EU RoHS Status: Passed with Exemption
 Exemptions: 5, 7c, 7a
 REACH SVHC Status: Passed
 Exceptions: None View Exception Report Other Substances List

Supplier Information
 Name: ABC
 Contact: bob
 Phone: 323
 Email: bob@ABC.com Re-Run
Excel Export
IPC Export

#	Substance Name	CAS Number	Mass (g)	Concentration (ppm)
41	Oxygen	7782-44-7	0.0037741	744.978
42	Dichromium trioxide	1308-38-9	0.0000060	1.184
43	Ethene, 1,1,2,2-tetrafluoro-, homopolymer	9002-84-0	0.0000640	12.633
44	Manganese dioxide	1313-13-9	0.0152732	3014.812
45	Magnesium oxide	1309-48-4	0.0000612	12.080
46	KF96 or KE 76 8S	63148-62-9	0.0000160	3.158
47	Iron	7439-89-6	0.0526468	10392.072
48	Glass, oxide, chemicals	65997-17-3	0.0000776	15.318
49	Brominated Epoxy Resin	0.0051452	1015.623	
50	Graphite	7782-42-5	0.0003520	69.482
51	Potassium	7440-09-7	0.0046150	910.965
52	Ruthenium oxide (RuO2)	12036-10-1	0.0000828	16.344
53	Neodymium oxide	1313-97-9	0.0087772	1732.552
54	Poly[oxy(methyl-1,2-ethanediy)], .alpha.-(2-oxiranylmethyl)-...	26142-30-3	0.0000372	7.343
55	Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer...	68928-70-1	0.0003648	72.009
56	Magnesium titanium oxide (MgTiO3)	12032-30-3	0.0624000	12317.278
57	Others		2.1758232	429490.705

Minimum Requirements

- MS Windows XP or MS Windows Vista or Windows 7/8/10
- .NET Framework 2.0
- Adobe Acrobat Reader V 9.0 or above
- CPU: 2GHz or above; RAM: 2GB or above; HD: 100 GB or above

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 +1-323-254-5961 ♦ info@greensofttech.com