GreenSoft TECHNOLOGY, INC.

Your Partner in Compliance

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GreenData Manager® DESKTOP EDITION

Compliance Data Management and Reporting Software for EU RoHS, EU REACH, and Other Environmental 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 time-consuming.

The best way to manage compliance is to collect **Full Material Declaration (FMD)** data for all components from your suppliers. But how do you manage this data? How do you use the data to prove compliance? And how to you share that data across the company?

The Solution: GreenData Manager Desktop Edition Software

GreenData Manager Desktop Edition (GDM-

DE) software is a unique compliance tool for data storage, analysis, and reporting. **GDM-DE** software provides the power that manufacturers need to analyze complex chemical data on their parts and generate regulation-specific reports.

A Robust Software Solution to Streamline Your Environmental Compliance

GDM-DE software 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 27-built in regulations, including EU RoHS, EU REACH SVHC, California Proposition 65, China RoHS, Halogen Free, and more. Or define your own rules per your customers' requirements.
- Produce compliance reports and full disclosure reports at the company-level, product family-level, or product-level.
- Generate due-diligence packages.

GDM-DE is installed at your facility behind your company's firewall so that your data and BOMs are protected. Plus, **GDM-DE** easily integrates with most ERP/PLM systems.



GDM-DE Feature Highlights:

- Report **completeness status** on collected data or documents.
- Report compliance status on all parts or BOMs, and generate compliance reports for EU RoHS, China RoHS, California Proposition 65, Halogen Free, EU REACH Annex-14, EU REACH Annex-17, EU REACH SVHC, and other regulations. Or define your own compliance rules per your customers' requirements.
- Receive online updates of changes to regulations and substance data so that you're always dealing with the most up-to-date information.

Import the component compliance data through Excel, IPC-1752A XML, or other formats.

BONUS: GreenSoft Technology also offers **hands-on data collection and validation services**! Let us collect compliance data from your supply chain on your behalf, and we'll import it into GDM-DE for you!

- Provide a substance analysis on all items with roll-up capability for 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-1752A XML, and IEC 62474 XML formats.
- Plus, GDM-DE software has the capability to classify and process articles per the "Once-an-Article, Always-an-Article" definition under EU REACH.
- Install behind your **company's firewall** so that your data and BOMs are protected.
- Integrate with most ERP/PLM systems.

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A Complete Compliance Management System: How it Works

GDM-DE software helps you manage your product compliance data and documents via the following process:

- 1) Data Collection Management
- Import the data you have collected through Excel, IPC-152A XML, or have GreenSoft collect, validate, and import the data for you.
- Data can also be imported automatically through the Auto PartData Import Module.
- Examine and validate regulation compliance status, such as EU RoHS or EU REACH, and Exemption Status provided by suppliers.
- Validate aggregated substance weight against component weight or subpart weight with userdefined tolerance.
- Validate document collection status and expiration status and get alerts 30-days before the documents expire.

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	page quickly summ	arizes your green d	lata. Get a statu	is update o	n parts wit	h incomplete data, p	arts that are not in con	pliance with	required regulation	ns, and par	ts with ass	ociated do	cuments.					
Summary								_										
	tem Master listed	/total: 35/35		Number o		tem Master listed / to	tal: 20/268) Exact search fo	r internal/1	lanufactur	rer PN	Close	•				
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2 · Low Ha	logen Scan			Import from			Import from IPC-1752	8 1752A	Import MCD fro			t Rule Stat						
				IEC-6247			Export to IPC-1752A		Customer Comp									
GADSL	Declarable Substa	nces (2021-02-01)	~	Substance Grand Re			REACH/EU RoHS/M Import MCV from Exce		CA Prop 65 Re		_	ed Parts R tance Inqui						
R4 - Sony Si	ubstance Survey		~				Component Disclosure		CA HOU IS NO		2003	0.000.0000						
tem Master L	ist																	
• : OK/Passe	d 😑 : Not Ready	Failed 🔾 : Inval	lid Entry/Incom	nplete 🗧	Docum	nent Expired 🛛 😑 : A	Passed with Exemp	tion 🗖:S	ubpart Info Inco	mplete	: Subp	art Failed	1 O:N	ot Applicable				
IPN		MFG	MFG P	٩N	MFG Code	De	escription	Requirer	ent EU RoHS Status	R2 Status	R3 Status	R4 Status	Primary	Collection Status	MCD Type	Rule Category	Lifecycle	Part Series/Fam
022-10034-22	ON SEMICONE	NICTOR	TL431AIDG		Code		PRECISION SHUNT		Status	O	31805	O	Y	Completed and Deliv	Full Disclosure		Active	
022-10034-22	TEXAS INSTR		TL431AIDG4			IC. ADJUSTABLE PRECISION SHUNT							· ·	Completed and Deliv			Active	
122-10036-005		RATED PRODU			IC MPU RESET 3 08V TR								Y	Completed and Deliv	Full Disclosure		Active	
022-10036-005	STMICROELEC		STM811TW1				08V TRIP.SOT-143-4			0				Completed and Deliv			Active	
022-10036-02	VENKEL	C0603C0G500-220JN				CAPACITOR, CERAMIC, 50V, C0G, 5%.				•					Full Disclosure		Active	
022-10036-10	AVX		TAJA106K010R			CAP.3216.10 UF.10%.10V.1			•	•				Completed and Deliv			Active	
022-10036-12	ON SEMICOND	UCTOR	1SMB170AT3G			ZENER TRANSIE	NT VOLTAGE SUPP	. •	•	0	0	0		Completed and Deliv	None		Obsolete	
022-10036-18	NICCOMP		NMC0805NPC	0102J1			5%,100V,C0G,RoHS		•	•		•		Completed and Deliv	Full Disclosure		Active	
022-10036-20	ROHM		RLS4148TE11	1C		Diode, Silicon Swit	ching, 100V, 100mA,	•	•	•		•		Completed and Deliv	Full Disclosure		Obsolete	
022-10036-24	SAMTEC		SMM-132-02-5			CONN.SOCKET.1	V00 0 04444 00111 41	•		0	-	•		Completed and Deliv	E.d.Dealances		Active	

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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 instead of each BOM.
- Perform compliance validation on 27-built in regulations, or define your own rules.
- 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 or IEC 62474 formats.

	30M 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	BOM ID/IPN MFG Name MPN		MFG 2nd BOM Name/Description Exclude		Excluded	Match Status	Requirement Status	EU RoHS Status	R2 Status	R3 Status	R4 Status	Quantity		
0	C15-Simple			Control		Control Board M590 , DIV-15-1	590 , DIV-15-1		•	•	•	•	•		
1	1001-150							•	•	•	•	•	•	1	
2	0022-10036-02	VENKEL	C0603C0G500-2			CAPACITOR, CERAMIC, 50V, C0	No	•	•	•	•	0	•	15	
2	0022-10036-10	AVX	TAJA106K010R			CAP,3216,10 UF,10%,10V,TANT	No	•	•	•	•	0	•	8	
2	0022-10036-005	MAXIM INTEGRATED PRO	MAX811TEUS+T			IC,MPU RESET, 3.08V TRIP, SO	No	•	•	•	•	0	•	10	
2	0022-10036-12	ON SEMICONDUCTOR	1SMB170AT3G			ZENER TRANSIENT VOLTAGE	No	•	•	•	0	0	•	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 under the definition of an "article" under EU REACH).
- 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.

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3) Product Compliance Report (Continued)

Perform Failure Analysis on BOMs that fail to comply with regulations or customer requirements, and generate Failure Analysis report.

Action Pan	el								
Rule Name:	REACH SVHC (235)		~			Generate	Close		
BOM Profile:	BOM ID: C15-Simple BOM Name: Control Bo Revision:	oard M590 , DIV-15-1	^	* BOM Mass has					
	Project Name:	00000				Export	Export		
	Mass (g): 98.11629200 Location: Global	0000		Exclude parts	with incomplete infom	nation			
			T	Include 2nd S	Source	Exception Report			
Item No	Туре	Substance Name		CAS Number	EC Number	Threshold	Units	Compliance	
	7	Y	V		7 7		7 7		
1	Substance	triethyl arsenate		15606-95-8	427-700-2	1000.000	ppm	Pass	
2	Substance	Sodium dichromate		10588-01-9	234-190-3	1000.000	ppm	Pass	
3	Substance	lead hydrogen arsenate		7784-40-9	232-064-2	1000.000	ppm	Pass	
4	Group	Hexabromocyclododecane (HBCDD)				1000.000	ppm	Pass	
5	Substance	Dibutyl phthalate (DBP)		84-74-2	201-557-4	1000.000	ppm	Pass	

Iter No		Manufacturer Name	Manufacturer PN	Description		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, COG, 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.odf	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,COG,RoHS COMPLIANT	N	12	EA	Exact Match	Passed	CoC10_NIC_NMC0805NPO102J100TRPLPF_111222.edf	Not Present		Not Present
5	0022- 10036- 20	ROHM	RL54148TE11C2		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 050119.pdf	Not Present		Not Present
7	0030- 00150- 001	YAGEO	RC0402FR-0760K4L	RE5,0402,60.4K 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

4) Due Diligence Report for EU RoHS

- Generate BOM-level due diligence reports as part of the technical documents required for CE Mark per IEC EN 63000.
- List unique parts from the BOM with EU RoHS compliance status and due diligence documents such as Certificates of Compliance (CoCs), lab test reports, or FMD documents. All documents are hyperlinked and accessible through a simple click.

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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 SVHC compliance status included.
- Export product-level full-disclosure report to Excel, IPC-1752A XML, or IEC 62474 XML formats.
- Exception Report lists parts unavailable to be included in the product roll-up.

Minimum Requirements:

- Microsoft Windows 10/11
- Adobe Acrobat Reader or other compatible PDF reader

- 🗌 Use External BOM ID 🛛 🛃 Mask Trade Secret Substan evel Full Disclosure for the : KML or IPC-1752A XML EU RoHS Profile 82.7a 82.7c1 EU RoHS-2 New Substances Pro BOMCheck IPC FC 62474 IPC 1752 anot BOM as Substance Name CAS Num 1314-11-0 0.00789 Calcium oxide 1305-78-8 0.009113625 92.88 127802.90 Zirconium dioxide 1314-23-4 0.03037875000 309.620 426009.676 00.00 Titanium dioxide 13463-67-7 0.00125369400 12.778 17040.387 119788.60 119788.605 Quartz (SiO2) Trimanganese 14808-60-7 0.00911362500 92.886 127802.903 150000.00 150000.00 50000.00 1317-35-7 0.00303787500 30.962 42600.968 50000.00 08776491231 0.087764912313 0.01228150000 62.670289177528 0.000367613400 12047-27-125.173 638734.790 823943.66 670226.96 991285.403 119900.000 Glass (Lead free 3.747 13384.326 5155.145 49295.775 119900.00 7440-31-1.3132204
- .NET Framework 4.8 or above
 CPU: 2GHz or above; RAM: 4GB or above; HD space: 100 GB or above

GreenSoft TECHNOLOGY, INC.



VENDOR MEMBER

001:2015



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