

SAP EHS SUBSTANCE VOLUME TRACKING



Copyright

© 2013 SAP AG or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries. Please see http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark for additional trademark information and notices.

© SAP AG Page 2 of 14



Icons

Icon	Meaning
Δ	Caution
	Example
\wp	Note
②	Recommendation
	Syntax
4	External Process
②	Business Process Alternative/Decision Choice

Typographic Conventions

Type Style	Description
Example text	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options.
	Cross-references to other documentation.
Example text	Emphasized words or phrases in body text, titles of graphics and tables.
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as ${\tt F2}$) or the ${\tt ENTER}$ key.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<example text=""></example>	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.

© SAP AG Page 3 of 14



Contents

1	Pur	rpose		5
2	Pre	erequ	isites	5
	2.1	Mas	ster Data and Organizational Data	5
	2.1	.1	General	5
	2.2	Pre	liminary Steps	6
	2.2	.1	Updating Substance and Material Structures	6
	2.2	.2	Updating Initial Tracking	7
	2.3	Bus	iness Conditions	8
	2.4	Rol	es	8
	2.4	.1	Authorizations	8
3	Pro	cess	Overview	8
	3.1	Exp	lanation of the Data Models	8
	3.2	Pro	cess Overview Table	9
4	Pro	cess	Steps - Substance Volume Tracking within Sales and Delivery	9
	4.1	Cre	ating a Sales Order for Material EH-4000 and Sold to Party 100010	9
	4.2	Cre	ating a Delivery for Previous Sales Order	10
	4.3	Upo	lating Tracked Amounts	11
	4.4	Sho	wing Tracked Amounts	12
5	App	pend	x	13
	5.1	SAI	P ERP Reports	13
	5.2	Add	litional Information	13
	5.2	.1	SAP Help Portal	14
	5.2	.2	SAP Notes	14
	5.3	Fre	quently Asked Questions	14



EHS Management Substance Volume Tracking (Sales)

Purpose

The new European REACH legislation (Registration, Evaluation and Authorization of Chemicals) requires companies to register substances (NOT (!) materials) that they import into or produce within the EU. Registering means that they must inform the registration agency about certain properties and also about risks of the relevant substances and how these substances can be handled safely. The amount of data required for such a registration and the amount of time the companies have until they must deliver this information depends on the yearly amount of imported and produced substance (tonnage bandwidth).

Whereas this information is primarily important for companies within the EU that import or produce substances, it is also useful and sometimes even needed information for non-EU suppliers of EU customers. This data is needed in the following two cases:

- 1. The non-EU supplier wants to offer a service to the EU customer by telling the customer material and substance amounts that this customer imports from that supplier.
- The non-EU supplier wants to play the role of an Only Representative. In this case the supplier registers all the substance amounts that are imported into the EU. As a consequence, the EU customers do not need to register these amounts.

This is where SAP EHSM Substance Volume Tracking (SVT) comes into the game: It allows companies to find out the effective substance amounts that they export to the EU.



Data and documents in this scenario are presented as examples only. No warranty is taken in any kind.

2 **Prerequisites**

2.1 Master Data and Organizational Data

2.1.1 General

Default Values

Essential master and organizational data was created in your ERP system in the implementation phase, such as the data that reflects the organizational structure of your company and master data that suits its operational focus, for example, master data for materials, vendors, and customers.

The business process is enabled with this organization-specific master data, examples are provided in the next section.



Additional Default Values

You can test the scenario with other SAP Best Practices default values that have the same characteristics.

Check your SAP ECC system to find out which other material master data exists.



Using Your Own Master Data

© SAP AG Page 5 of 14



You can also use customized values for any material or organizational data for which you have created master data. For more information on how to create master data, see the Master Data Procedures documentation.

Mater/org.data	Value	Master/org. data details	Comment
Material	EH-4000		
Sold-to party:	100010		
Ship-to party:	100010		
Sales organization:	1100		
Distribution channel:	10		
Division:	10		
Sales office	110		
Sales group	110		

2.2 Preliminary Steps

2.2.1 **Updating Substance and Material Structures**

Use

Substance Volume Tracking (SVT) gathers data about product structures, goods movements and production results in the background using logs that run regularly at night.

One of these logs is RREGCH_FILL, which gathers product and substance composition information and stores it centrally. This log must be run whenever bills of material or substance compositions change.

Whenever you change the production BOM or composition of one of the relevant objects, the log must be run again. In productive customer environments, this log runs once per night; for maximum transparency we run it manually here.

Note: You can only run the Initial option first time, if this has already been done the delta run has to be chosen.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	$Tools ightarrow ABAP \ Workbench ightarrow Development ightarrow ABAP \ Editor$
Transaction code	SE38 (or SA38)

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

Business role	IT Administrator (Professional User)
	(SAP_NBPR_IT_ADMIN_S)
Business role menu	IT Administration $ ightarrow$ Administration $ ightarrow$ ABAP Workbench $ ightarrow$ ABAP Reporting

Make the following entries:

Field name	Description	User action and values	Comment
Report		RREGCH_FILL	

- 3. Choose Execute.
- 4. Make the following entries:

© SAP AG Page 6 of 14



Field name	Description	User action and values	Comment
Regulatory list		Reach	
Delta run		choose	

- 5. Choose Execute.
- 6. In the dialog box, choose Yes to confirm the report run.
- 7. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Or

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

Updating Initial Tracking 2.2.2

Use

Substance Volume Tracking (SVT) gathers data about product structures, goods movements and production results in the background using logs that run regularly at night.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	Tools ightarrow ABAP Workbench ightarrow Development ightarrow ABAP Editor	
Transaction code	SE38 (or SA38)	

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

Business role	IT Administrator (Professional User)
	(SAP_NBPR_IT_ADMIN_S)
Business role menu	IT Administration $ o$ Administration $ o$ ABAP Workbench $ o$ ABAP Reporting

Make the following entries:

Field name	Description	User action and values	Comment
Report		RREGCH_VT	

- 3. Choose Execute.
- 4. Make the following entries:

Field name	Description	User action and values	Comment
Regulation		REACH	
Scenario		EXP	
Delta run		Selected	

- 5. Choose Execute.
- 6. In the dialog box, choose Yes to confirm the report run.
- 7. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Or

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

© SAP AG Page 7 of 14



2.3 Business Conditions

The business process described in this Business Process Documentation (BPD) is part of a bigger chain of integrated business processes or scenarios. As a result, you must have completed the following processes and fulfilled the following business conditions before you can start any activities in this scenario:

Business condition	Document	
Costing run needs to be carried out	Final Steps after Activation	
Check and change MM period to current period	Final Steps after Activation	
Initial stock postings	Final Steps after Activation	

2.4 Roles

Use

The following needs to be installed prior to testing this scenario in the SAP NetWeaver Business Client (NWBC). The roles in this Business Process Documentation must be assigned to the user or users testing this scenario. You only need these roles if you are using the NWBC interface. You do not need these roles if you are using the standard SAP GUI.

The business roles have been assigned to the user who is testing this scenario.

Business role	Technical name	Process step	
Sales Administrator	SAP_NBPR_SALESPERSON_S	Create a sales order	
IT Administrator (Professional User)	SAP_NBPR_IT_ADMIN_S	Run SVT Report	
Warehouse Clerk	SAP_NBPR_WAREHOUSECLERK_S	Create a delivery, Goods Issue for Delivery, Certificate of Analysis, Picking	
EHSM: Substance Volume Tracking	SAP_NBPR_COMPLIANCE_EHSM_S	Information to Compliance department	
EHSM Clerk	SAP_NBPR_EHSM_CLERK_S	Raise registered amounts Write back tracked amounts	

2.4.1 **Authorizations**

For Substance Volume Tracking some new authorization objects were defined within EH&S. To be able to process the full scope of SVT, ensure that your users have - besides the general EH&S authorizations – also adequate rights for the following new authorization object:

C_EHSRC_SV (= EHS: Substance Volume Tracking)

3 **Process Overview**

3.1 Explanation of the Data Models

REACH talks about substance volumes, not material volumes. As logistics within SAP works with materials, it is important to understand how the system comes from material amounts to substance amounts. This paragraph explains this for the relevant material EH-4000 that is part of our SVT scenario.

To understand how Substance Volume Tracking (SVT) works and which amounts are taken into account, review the following model of material EH-4000 that is linked to the substance P4000.

© SAP AG Page 8 of 14



3.2 Process Overview Table

Substance Volume Tracking Within Sales and Delivery

Process Step	External Process Reference	Business Condition	Business Role	Transaction Code	Expected Results
Creating a sales order		Customer has ordered some materials	Sales Administrator	VA01	Sales order has been created.
Create delivery		Ordered materials are ready to be delivered	Warehouse Clerk	VL01N	Delivery has been created
Run SVT report			IT Administrator (Professional User)	SA38	Substance amounts have been updated
Show tracked amounts		Supplier needs information on amount of exported substances	EHSM: Substance Volume Tracking	CBRC20	Current bandwidths are known

Process Steps – Substance Volume Tracking within Sales and Delivery



If you export the relevant materials EH-4000 in some other scenario from outside the EU to the EU, the tracked substance amounts in your system may be higher than those outlined here.

4.1 Creating a Sales Order for Material EH-4000 and Sold to Party 100010

Use

The customer ordered material EH-4000. A sales order is created.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	Logistics ightarrow Sales and $Distribution ightarrow Sales ightarrow Order ightarrow Create$	
Transaction code	VA01	

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

Business role	Sales Administrator
	(SAP_NBPR_SALESPERSON_S)

© SAP AG Page 9 of 14



Business role menu	Sales → Sales Orders → Sales Order Processing → Create Sales
	Order (VA01)

2. Make the following entries:

Field name	Description	User action and values	Comment
Order Type		OR	
Sales Organization		1100	
Distribution Channel		10	
Division		10	

- 3. Choose Enter.
- 4. On the Create Standard Order screen, make the following entries:

Field name	Description	User action and values	Comment
Sold-to party		100010	
Purch. ord. no.		123/AB-46	Free text or SAP related purchase order number
Req.deliv.date		<pre><date delivery="" of=""></date></pre>	
Material		EH-4000	
Order quantity		100	KG

- 5. Choose Enter.
- 6. Save your entries.
- 7. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

Result

The system creates a sales order.

4.2 Creating a Delivery for Previous Sales Order

Prerequisites

A complete sales order must be available before a delivery document can be created. Materials (and batches) must be available in the storage location.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	Logistics → Sales and Distribution → Shipping and Transportation → Outbound Delivery → Create → Single Document → With reference to Sales Order
	alternatively:
	Logistics \rightarrow Logistics Execution \rightarrow Outbound Process \rightarrow Goods Issue for Outbound Delivery \rightarrow Outbound Delivery \rightarrow Create \rightarrow

© SAP AG Page 10 of 14

	Single Document → With reference to Sales Order
Transaction code	VL01N

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

Business role	Warehouse Clerk	
	(SAP_NBPR_WAREHOUSECLERK_S)	
Business role menu	Warehouse Management → Shipping → Outbound Delivery → Create Delivery (VL01N)	

2. On the Create Outbound Delivery with Order Reference screen, make the following entries:

Field name	Description	User action and values	Comment
Shipping point		1000	Shipping point 1000
Selection date	Selection date for the delivery	< date >	
Order	Number of sales order	< sales order number>	

- 3. Choose Enter.
- 4. On the Create Outbound Delivery: Overview screen, save your entries.



To change the Outbound delivery, use transaction code VLO2N. Choose the Picking tab. Check if the overall picking status and OverallWM Status has Confirmed status.

- 5. Choose Post Goods Issue.
- 6. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Or

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

Result

The system contains a complete delivery document. The goods are fully picked.

4.3 Updating Tracked Amounts

Use

The system tracks saled amounts to ensure that they are up to date regarding the current limits reached in the company. This is done with a periodic job (for example, running every night) that collects these amounts.

For maximum transparency, we manually perform this step here.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	$Tools ightarrow ABAP \ Workbench ightarrow Development ightarrow ABAP \ Editor$	
Transaction code	SE38 (or SA38)	

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

© SAP AG Page 11 of 14



Business role	IT Administrator (Professional User)
	(SAP_NBPR_IT_ADMIN_S)
Business role menu	IT Administration \rightarrow Administration \rightarrow ABAP Workbench \rightarrow ABAP Reporting

- 2. In the *Program* field, enter RREGCH_VT and choose *Execute*.
- 3. On the Substance Volume Tracking: Tracking of Substance Quantities screen, make the following entries:

Field name	Description	User action and values	Comment
Regulatory List		REACH	
Scenario		EXP	
Delta run		Selected	

- 4. Choose Execute.
- 5. In the information dialog box, choose Yes. The logs are displayed.
- 6. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Or

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

4.4 Showing Tracked Amounts

Use

In this activity, we show the tracked amounts for SVT.

Procedure

1. Access the transaction choosing one of the following navigation options:

Option 1: SAP Graphical User Interface (SAP GUI)

SAP ECC menu	Logistics → Environment, Health and Safety → Product Safety → Substance Volume Tracking → Substance Volume Tracking: Track Substance Quantities	
Transaction code	CBRC20	

Option 2: SAP NetWeaver Business Client (SAP NWBC) via Business Role

Business role	EHSM: Substance Volume Tracking
	(SAP_NBPR_COMPLIANCE_EHSM_S)
Business role menu	Compliance → EHSM Substance Volume Tracking → Subs. Volume Tracking: Monitoring

2. On the Substance Volume Tracking: Monitoring screen, make the following entries:

Field name	Description	User action and values	Comment
Regulatory List		REACH	
Scenario		EXP	
Year		2014	Current year

3. Choose Execute.

The relevant amounts are listed. Pay attention to the following columns:

© SAP AG Page 12 of 14



- Scenario and Scenario category.
- Planned Quantity (value X = Yes, ' ' = No)
- Material, specification and tracked substance.
- Object entry, attribute and key value (describes from which document this entry comes).
- Quantity and unit of measurement.
- Overall status (cumulated status for the respective substance).
- Quantity limit and threshold value (the limits used in the calculation).

You can temporarily or permanently adjust the columns shown and their sequence by choosing Change layout.

4. Choose Back (F3) to the SAP Easy Access screen (SAP GUI).

Or

Choose Exit (Shift+F3) and confirm the Business client message with Yes to return to SAP Home (SAP NetWeaver Business Client).

Result

The Compliance Officer has a complete overview of the status of the REACH-relevant substances and knows which ones are close to or over their limits, allowing the opportunity to take appropriate steps.

Appendix 5

5.1 SAP ERP Reports

Use

The table below lists the most frequently used reports that help you to obtain additional information on this business process.

Reports

Report title	Transaction code	Comment
RREGCH_FILL	SA38	SVT: Data transfer from property tree
RREGCH_VT	SA38	SVT: Tracking of substance quantities
RREGCH_VT_CONDENSE_SAVE	SA38	SVT: Transfer tracked substances to property tree of affected substances
RREGCH_RESTART_VT	SA38	SVT: Correction of tracked substances

For more information, read the documentation for these reports. To view the documentation, perform the following steps:

- 1. In the *Command* field, enter transaction code SA38 and press *Enter*.
- 2. In the *Program* field, enter the name of the report.
- 3. From the menu, choose $Goto \rightarrow Documentation$.
- 4. The system displays the *Performance Assistant* dialog box with the report documentation.

5.2 Additional Information

© SAP AG Page 13 of 14



5.2.1 SAP Help Portal

For more information about EHS Management Substance Volume Tracking (Sales), see the SAP help portal at:

http://help.sap.com/erp2005_ehp_05/helpdata/EN/43/94291f1122345be10000000a422035/fram eset.htm

5.2.2 SAP Notes

Here is a list of relevant SAP notes:

Note	Description
905726	Substance Volume Tracking in SAP M
1067304	Environment parameters for Substance Volume Tracking
1111196	Set up user status for SVT online checks
1143211	Correction of tracked substances

5.3 Frequently Asked Questions

Questions	Answers
Can Substance Volume tracking handle multile Regulations?	Yes
Can Sales orders be blocked based on quantity Thresholds?	Yes

© SAP AG Page 14 of 14