

# NiceLabel GHS sample solution

Rev 2015-03

© 2015 Euro Plus. All rights reserved.

[www.nicelabel.com](http://www.nicelabel.com)

# Table of Contents

Introduction.....	3
Solution description .....	4
Using the solution .....	5
PowerForms application for printing labels.....	5
PowerForms application for managing chemical data.....	6
Customizing the solution.....	7
Modifying existing or adding new GHS label templates .....	7
Modifying PowerForms applications .....	8
Advanced customization .....	10

## Introduction

---

The new, free PowerForms Desktop GHS solution provides NiceLabel partners a complete GHS labeling solution that can be individually re-branded, quickly configured and easily customized to meet customer compliance needs. NiceLabel helps organizations achieve GHS compliance while significantly reducing operational costs and increasing agility through all-in-one label management, printing and integration solutions.

To create a GHS compliant labeling system you need to look beyond meeting basic template needs. In addition to designing all required label elements, you need to ensure:

- Users always print the right data.
- Controlled access to label design templates.
- Support for different languages (Unicode) on the same label.
- Easy long-term maintenance of label templates.
- Information on labels and safety data sheets is aligned.

The NiceLabel GHS sample provides a simple, customizable solution that helps customers rapidly achieve compliant and efficient daily labelling operations. It includes all required label design features as well as two intuitive PowerForms applications to print labels and manage a database with chemicals.

Based on chemical selection; all hazard statements, precautionary statements and GHS-mandated pictograms are automatically populated in the correct size for the label, with multiple formatting options. The solution also offers support for multiple languages which can be selected on the printing form.


For more information about GHS and chemical labeling, visit the [NiceLabel Chemical industry page](#).

It consists of the following files:

- [illegible]

		<h1>Methoxyacetic acid</h1>
<p>625-45-8 See ESDU for further information</p>		<p>Fill date: 03.03.2015          Expiration date: 3.3.2015          LOT num ber: 123456789          Fill weight: 100          UN No: 607-312-00-1</p>
<p><b>DANGER</b></p>		
<p>Noctil en cas d'ingestion. . Peut nuire à la fertilité. Peut nuire au foetus. Peut nuire à la fertilité. Susceptible de nuire au foetus.</p>		
<p>Provoque des brûlures de la peau et des lésions oculaires graves. .</p>		
<p>INGESTION: Appeler un CENTRE ANTIPOISON / un médecin / médecin / secouriste / en cas de malaise. Lavez toutes les parties du corps exposées externes soigneusement après manipulation.</p>		
<p>Ne pas manger, boire ou fumer en manipulant ce produit. . Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols. . Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage. . Rincer la bouche. .</p>		
<p>Sample Company Name</p>		

- # GHS Label Printing



**NiceLabel**  
Powered by PowerForms Desktop

---

**ENTER CAS NUMBER OR PART OF THE CHEMICAL NAME**

CAS number	Chemical name	IndexNo	Classification
7440-28-0	Thallium	001-001-00-3	H302+H302+
39-28-8	Thymol	004-032-00-1	H302+H314-3
7349-97-6	Mercury	000-002-00-0	H302D H330
005-45-6	Methoxyacetic acid	000-312-00-1	H302P H330
513-79-1	Cobalt carbonate	027-010-00-8	H302+H314-3

**Manage Chemicals**


Complete chemical name:  
Methoxyacetic acid

First Name:  
**DUTCH**

Expiration Date:  
11.03.2015

LOT Number:

Fill Weight:



## Methoxyacetic acid

Fiche 11.03.2015  
Exp date 11.3.2015  
LOT number  
Fill weight  
UN No. 007-312-00-1

**GEVAAR**

Kan de vruchtbaarheid schaden. Kan het ongeboren kind schaden. Kan de vruchtbaarheid schaden. Wordt ervan verwacht het ongeboren kind te schaden. Schadelijk bij inslikken. Veroorzaakt ernstige brandwonden en oogletsel.

Beschermende handschoenen aanbrengen.  
Hedigingsoefeninge opgeleide bescherming dragen. De mond spoelen. Inhaleren een ANTISTOF-CENTRUM! adieu! adieu!

EHDIO! als u zich ommet voel. Niet eten, drinken of roken tijdens het gebruik van dit product.


Schudpakjes pakkemiddel dampinhalatie niet inademen. Was alle blootgeraakte afdeggende delen van het lichaam grondig wassen.

Label:  
100x75mm

Printer:  
ZEDRA MZ 320

Print quantity:  
1

**Settings**



In order to print labels from this application you agree to our legal disclaimer.  
Note the label preview might look incomplete if your default printer does not support selected label dimensions.

GHS Management

NiceLabel<sup>®</sup>  
Powered by PowerForms Desktop

---

ENTER CAS NUMBER OR PART OF THE CHEMICAL NAME

Chemical name  
Thallium  
Thymol  
Mercury  
Methoxyacetic acid  
Cobalt carbonate

Please select the product:

Thallium

UN No.: 001-001-00-3

CAS No.: 7440-28-0

H-Codes: H330-H300+H373-H413

P-Codes: P260-P271-P284-P264-P270-P273-P304+P340-P310-P330-P301+P310-P321-P330-P314-P403+P233-P403-P501

(see H351/H373/P401)

(see P391/P301/P322)

Company/Tel.: NiceLabel

Pictograms:


Signalword:

New Save Delete Cancel

Back

In order to print labels from this application you agree to our [legal disclaimer.](#)

- C:\...\Project\Graphics\graphics.bmp

## Using the solution

### PowerForms application for printing labels

The screenshot shows the 'GHS Label Printing' application window. It features a search bar at the top left (1) for entering CAS numbers or chemical names. Below it is a table of chemical data (2) with columns for CAS number, Chemical name, IndexNo, and Classification. The table lists chemicals like Thallium, Thymol, Mercury, Methoxyacetic acid, and Cobalt carbonate. A 'Manage Chemicals' button is located below the table. To the right of the table is a 'Complete chemical name' field (3) and a language selection dropdown (4) with options for Dutch, English, French, German, Italian, Japanese, and Spanish. Below the language selection is an 'Expiration Date' field (5) and a 'LOT Number' field (6). At the bottom left is a 'Fill Weight' field. On the right side of the window is a large label preview (7) for 'Cobalt carbonate' (CAS No.: 513-79-1). The preview shows hazard pictograms, signal words, and hazard statements in both English and Dutch. Below the preview are fields for 'Label' (210x120mm), 'Printer' (ZEBRA MZ 320), and 'Print quantity' (1). A 'Settings' button is also present. At the bottom of the window is a disclaimer: 'In order to print labels from this application you agree to our legal disclaimer. Note: the label preview might look incomplete if your default printer does not support selected label dimensions.'

The **GHS Label Printing** PowerForms application enables the following operations:

#### 1. Chemical selection

Users can search the database by providing CAS number or chemical name. After the chemical is selected the form will automatically populate hazard statements, precautionary statements, signal words and GHS-mandated pictograms on the label.

#### 2. Language selection

Depending on the selected label the user is able to choose one or two languages that will be used on the label for hazard and precautionary statements. Data is provided in the following languages: English, Dutch, French, German, Italian, Japanese and Spanish.

#### 3. Additional data input

Expiration date, LOT number and weight can be added manually before print.

#### 4. Label selection

Users can select between different available GHS label templates.

#### 5. Printer selection, print quantity and printer settings

A dynamic list of printers is auto-filled with all printers that are available on the system. It will be automatically refreshed every time the form is used. Users can define printer settings for the selected printer before printing as well as print quantity and print to any printer available on their system.

#### 6. Switch to management form

The **Manage Chemicals** button opens the **GHS Data Management** form where the user can manage the chemical data.

#### 7. Run user interface in different languages

The user interface can be automatically translated by using language selection combo box.

## PowerForms application for managing chemical data

The PowerForms application **GHS Data Management** form enables management of the chemicals in the database. Users can add new chemicals or edit existing chemical information.

User interface description:

1. Search for existing chemical
2. Complete chemical name – name of the selected substance or mixture
3. UN number
4. Chemical Abstracts Service number
5. Hazard statement codes and precautionary statement codes. The statements should be separated by a semicolon.
6. Graphical pictogram selector
7. Signal word selector
8. Supplier information
9. Buttons for creating a new record, saving or deleting a record and a button to jump to the **GHS Label Printing** form.

The **GHS Data Management** form updates the MS Access database **GhsDatabase.mdb** located in **..\Database\** folder.

## Customizing the solution

NiceLabel partners are welcome to rebrand and customize this solution to perfectly fit their customer needs as well as promote their own brand. Additionally, NiceLabel supports its partners with a [global team of professionals](#) that can assist with any customization beyond a partner's capabilities as a payable service. This might include advanced customizations of this sample, building NiceLabel Automation configurations for integrated printing or complete [Enterprise Solutions](#).

## Modifying existing or adding new GHS label templates

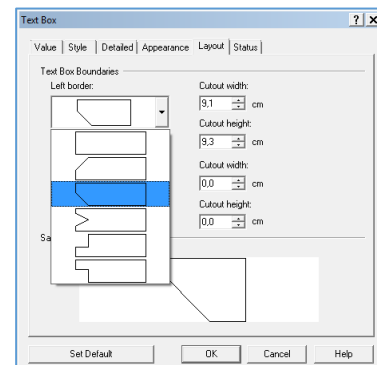
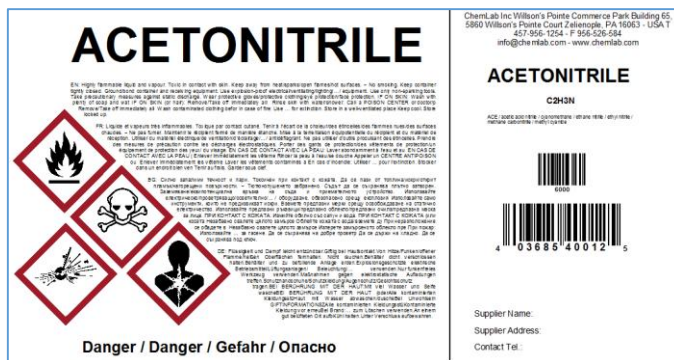
Eleven label templates are provided with the sample solution. All templates are completely customizable and new templates can be easily added to the existing solution. Label size and label design can be customized to fit different printers and comply with GHS label size regulations for containers of different sizes. The provided sample label templates can be used as a starting point to design new customer labels. This way the logic and template variables will be preserved and you can freely change the existing layout to fit the customer needs.

### NOTE:

- Variables with the same names must be used on the label templates in order to be used with sample PowerForms applications.
- Labels should be located in ..\Labels\ subfolder to be automatically available in the PowerForms application.

### TIPS:

**Text wrapping options:** You can define a custom-shaped cutout on both sides of the Text Box object. Text will not populate the area defined by the cutout. The adjacent object can be fully shown, and not covered by the text. This can be valuable when available space on the label is limited.



**Label structure:** You can preview label structure using the [Label Structure](#) tool. The design parameters of all objects, variables and functions found on the label are clearly displayed in the window.

**Security:** Using security settings you can protect label files with a password. Depending on the defined security level the protected label cannot be edited or even printed from any other computer.

## Modifying PowerForms applications

The layout of PowerForms applications for label printing and data management can be modified based on the customer's needs, requirements and business process.

**NOTE:** To preserve the business logic of the application do not change variable's properties or button actions.

### 1. Changing the layout of the applications

Use the NiceForm design application to change the PowerForms application user interface: change objects, positions, sizes, fonts, colors, etc.

### 2. Rebrand the applications

Use your own assets to rebrand the solution. Add your logo, web address and contact information to promote your company and stay connected with your customer.

**Laboratory II**  
**Secondary containers label printing**

ENTER CAS NUMBER OR PART OF THE CHEMICAL NAME

MANAGE CHEMICALS CHANGE LANGUAGE  
ENGLISH

SELECT THE PRODUCT  
Complete chemical name: **Mercury**

CAS number	Chemical name	IndexNo	Classification Hazard Codes	Classification Precauti
7440-28-0	Thallium	081-001-00-3	H330;H300;H373;H413	P260;P271;P284;P264;
89-83-8	Thymol	604-032-00-1	H302;H314;H411	P264;P270;P280;P264;
7439-97-6	Mercury	080-001-00-0	H360D;H330;H372;H410	P260;P271;P284;P264;
625-45-6	Methoxyacetic acid	607-312-00-1	H360FD;H302;H314	P264;P270;P280;P280;
513-79-1	Cobalt carbonate	027-010-00-8	H350;H341;H360F;H334;H317	P201;P202;P280;P261;
7440-28-0	Thallium	081-001-00-3	H330;H300;H373;H413	P260;P271;P284;P264;
89-83-8	Thymol	604-032-00-1	H302;H314;H411	P264;P270;P280;P264;
7439-97-6	Mercury	080-001-00-0	H360D;H330;H372;H410	P260;P271;P284;P264;

First language: FRENCH  
Second language: <none>  
Expiration Date: 09.03.2015  
LOT Number:  
Fill Weight:

**Container A - label 210x100mm**

**Mercury**

**DANGER**

CAS No.: 7439-97-6  
See SDS for further information

Fill date: 09.03.2015  
Expiration date: 9.3.2015  
LOT number:  
Fill weight:  
Index No.: 080-001-00-0

**PRINT container A**

**Container B - label 150x100mm**

**Mercury**

CAS No.: 7439-97-6

**DANGER**

Model per inhalation. Peut nuire au fœtus. Risque avéré d'effets graves pour les organes reproducteurs. Contient des substances dangereuses. Ne pas manger, boire ou fumer, inhaler ou se rincer la bouche. Ne pas respirer les vapeurs. Ne pas verser dans l'eau ou dans le sol. Ne pas jeter dans les déchets. Ne pas utiliser de récipient pour le stockage.

Fill date: 09.03.2015  
Expiration date: 9.3.2015  
LOT number:  
Fill weight:  
Index No.: 080-001-00-0

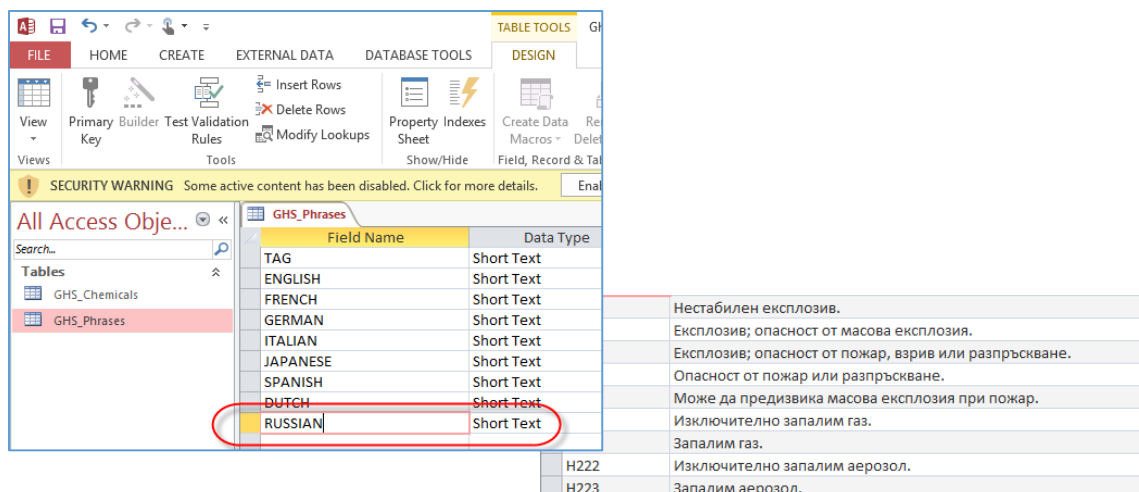
**PRINT container B**

### 3. Adding new languages for hazard and precautionary statements

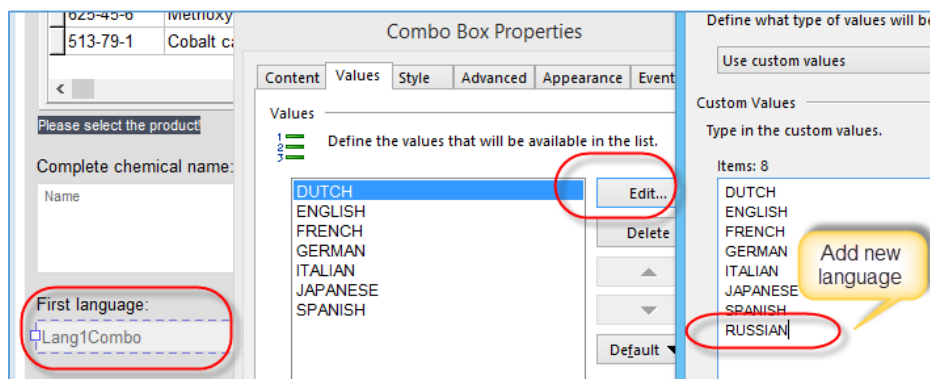
To add H&P statements in additional languages you need to do the following:

- Update the database:** Create a new field for the new language in the **GHS\_phrases** table in the provided database and fill the records with H&P statements in the required language.





- b) **Update GHS Label Printing application:** Select combo boxes for language selection and add the new value for the new language:



H&P statements in new added language are now available.

#### 4. Limiting the functionality

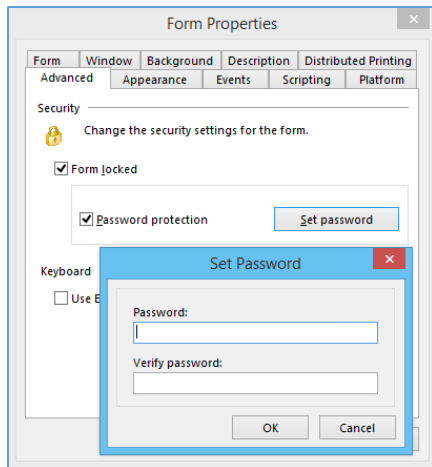
The functionality of the provided applications can be easily limited by removing, changing or hiding objects. Users can execute only the allowed operations.

Examples:

- Removing or limiting data management capabilities. By simply removing the “Manage chemicals” button you can remove the ability to change database data for print operators.
- Removing the printer selection or printer settings option capability. If operators will always use only one printer with the same settings it makes sense to remove the ability to modify this altogether.
- Limiting or removing label selection. Print operators should only have access to the labels which need to be printed.

#### 5. Security

To protect the form from accidental changes you can use the security settings under **File/Form properties**.



## 6. Add or remove user interface languages

Forms can be translated to different languages using the language selection combo box. You can add or remove a language by editing the ***Translations.csv*** file in the Forms subfolder of the solution. You should also update the language combo box values on the form to correspond with available languages.

## Advanced customization

All assets in this sample are provided unlocked and can be completely modified. Skilled NiceLabel users might for example, opt to change the business logic of the application, modify or replace the underlying database or reuse label templates in integrated GHS labelling solutions. The NiceLabel technical team can assist with modifications beyond those described in this document as a payable service.