

Risk assessment of SDS and job procedures

How to create a risk assessment of a chemical?

SDS Manager allow you do create Risk assessment of chemicals and use these for Chemical Instructions.

The base information of a risk assessment includes:

- The form of the substance
- What the substance is used for
- How the substance should be used
- How the substance should be disposed of
- Duration of exposure to the substance when handled
- Amount of the substance when handled
- Hazard types relevant for handling the substance
- classification of risk, classification of exposure and effect of PPE and controls for each hazard type
- Storage risk regarding safety events
- Storage risk regarding environmental release events

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For all locations you have the substance stored, you can evaluate the storage risk.

Location	Amount (i)	Safety risk	Likelihood accidental Safety event during storage	Environment risk	Likelihood Environmental release during storage accident	Risk category Safety - Storage	Risk category Environment - Storage	Ignore (i)
Hazardous Area	100 kg	Dangerous S3	Low likelihood	Very Dangerous E4	Low likelihood	S2	E3	<input type="checkbox"/>

To create Risk assessments for SDS, you will need the PRO version. On the page for [Risk Assessments \(require login\)](#) click the "Add risk assessment" button or select "Create Risk Assessment" from the SDS list.

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The screenshot displays the SDS Manager interface with the following elements:

- Tabs:** General (active), Hazard, Revision, Risk, Custom Fields.
- Section Headers:** Pictograms & Controls, Substance hazard (H, S, E), Actions.
- Row 1:** Pictograms (exclamation mark, skull and crossbones, eye protection, face protection), Hazard codes (H1, S1, E1), and Action icons (PDF, edit, heart, LDD, share, etc.).
- Row 2:** Pictograms (flame, exclamation mark, eye protection), Hazard codes (H4, S4, E7), and Action icons.
- Row 3:** Pictograms (flame, exclamation mark, skull and crossbones), Hazard codes (H5, S5, E7), and Action icons.
- Row 4:** Pictograms (corrosion, exclamation mark, skull and crossbones, eye protection), Hazard codes (H5, S1, E7), and Action icons.

A dropdown menu is open over the 'Create risk evaluation' option, which is highlighted with a red box. The menu items are:

- Move SDS
- Log presence of product
- Create risk evaluation**
- Move to archive
- Hide from Non-admin
- Safety information summary
- Replace with new SDS
- Edit SDS information
- Add EAN code
- Add attachment

As seen in the below example, SDS Manager allow you document the risk of the chemical when no controls are in place (2).

As part of the risk assessment, you can document required PPE and other controls required for safe handling, storage and disposal of the product. You can also determine the level of risk in handling and storing the chemical when used according to procedures and precautions documented in the

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risk assessment - i.e. risk rating after controls (3).

Storage risk is determined based on the quantity stored, the inherent safety dangers of the chemicals and estimated likelihood of an safety event where controls are required and document in the risk assessment are in place (4).

SDS Manager allows risk assessments to be approved (5) and when changes are needed, new revisions can be created.

Product Name	Job procedure	Location	Revision date	Risk rating			Risk rating after controls			Storage risk after controls		Document status	Approved
				H	S	E	H	S	E	S	E		
LIQUID RESIN CLEANER CH20, Incorporated		• Demo site Eng		H3	S1	E1	H3	S1	E1	S3	E1	Approved	2022-12-14
Argon (Refrigerated) Air Products and Chemicals, Inc		• Demo site Eng	2022-03-09	H4	S2	E1	H3	S2	E1	S3	E1	Approved	2022-12-14

Below is an example of a chemical risk assessment created in SDS Manager:

See example reports:

[Chemical instruction & risk assessment of 540101 EPOXY IMPREGNATION PRIMER - Activator \(Click to see PDF file\)](#)

[Chemical instruction & risk assessment of 540101 EPOXY IMPREGNATION PRIMER - Base \(Click to see PDF file\)](#)

Below is example of Job work instruction (COSHH report) for work involving the two above chemicals.

[Job hazard analysis report - Priming epoxy floor \(Click to see PDF file\)](#)

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