







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

Granular Absorbent - IL - MS	Oil-Dri Corporation	2018-09-07	14 l	H5	S1	E1
Risk category	Without controls	Controls	With controls			
Eyes	H5		H3			
Oral	H4		H3			
Skin	H4	 	H3			
Flammable	S3	 	S1			

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

Location	Amount 	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 
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 a navigation bar at the top containing tabs for 'General', 'Hazard', 'Revision', 'Risk', and 'Custom Fields'. Below this, there are three main sections: 'Pictograms & Controls', 'Substance hazard', and 'Actions'. The 'Substance hazard' section is further divided into 'H', 'S', and 'E' categories. A dropdown menu is open over the 'E' category, listing various actions such as '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', and 'Add attachment'. The 'Create risk evaluation' option is highlighted with a red border.

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

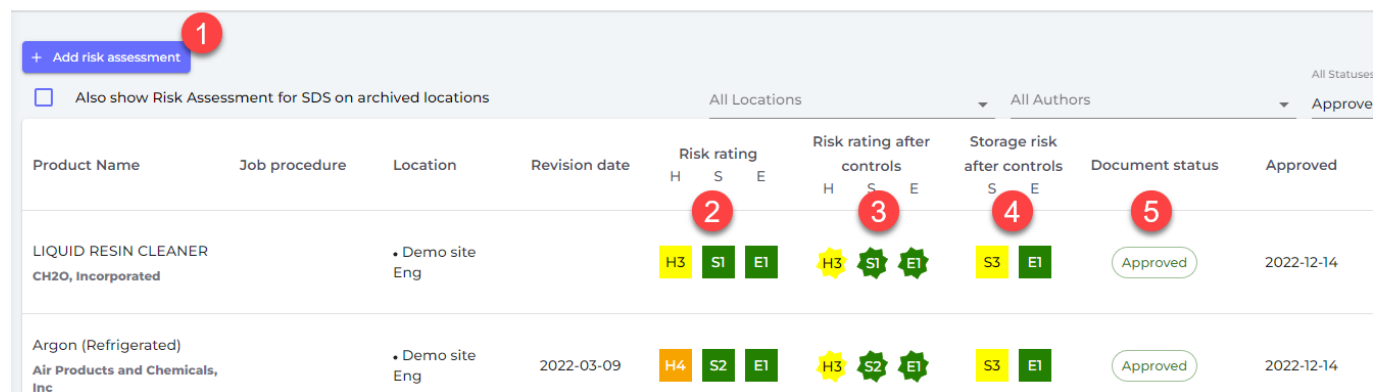
As part of the risk assessment, you can document required PPE and other controls required for safe handling, storage and disposal of the product. You can also determine the level of risk in handling and storing the chemical when used according to procedures and precautions documented in the

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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:

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Chemical instruction & risk assessment

Product Name	LIQUID RESIN CLEANER	 Open SDS	Risk categories	Without controls	With controls
Manufacturer Name	CH2O, Incorporated		 Flammable	S1	S1
			 Environment	E1	E1
			 Corrosive	H3	H3
			 Eyes	H3	H3
			 Skin	H3	H3
			 Inhalation/Respi	H3 n	H3

How should the substance be used? Clean accordint to descriptin on 3D printer operation manual.	How should the substance be disposed of? Dispose of all waste product and wastes generated from this product in accordance with local, state, and federal regulations. Assume wastes are hazardous unless characterization demonstrates otherwise. Handle empty drums as if they contain chemical residual until they have been thoroughly decontaminated.
Storage requirements keep locked	Hazards pictograms 
Hazard statements H290: May be corrosive to metals H314: Causes severe skin burns and eye damage H335: May cause respiratory irritation	
Hazards and controls	
 Flammable	S1 Not Dangerous S1 Very low
Controls in place  No smoking	
 Environment	E1 Not Dangerous E1 Very low
 Corrosive	H3 Hazardous H3 Medium
Controls in place  Wear protective clothing  Do Not Leave Waste	

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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