

Risk assessment of SDS and job procedures

How can I use SDS Manager to document job/work procedures for hazardous chemicals?

In SDS Manager, you can [create Job procedure](#) according to REACH, OSHA and COSHH.

A job procedure typically is used to describe a work procedure involving chemicals, but it is also possible to create work procedures that does not include any chemicals only using non-substance related hazards e.g. Electrical hazards.

A job procedure have the following GENERAL information: Frequency of the Job procedure, Description of the procedure, Description of the job steps and Description of the hazards

You may want to link a job procedure to a location and or users.

Risk assessment of SDS and job procedures

When you link users to a Job procedure, the user will receive an email requesting the user to review the Job procedure and to click the "Confirm I have read" the procedure. This help you document that procedures are read by involved users.

The Job procedure can be linked to one or more risk assessed chemicals (SDSs). Only risk assessed SDS can be linked to the Job procedure. I.e. you are creating a Job procedure involving e.g. 2 chemicals, you first create Chemical risk assessment for each of the two SDSs and then link the risk assessed chemicals to the Job procedure

The risk rating of the Job procedure is calculated as the highest rating found in the linked Chemical risk assessments.

Non-substance related safety hazards can also be added to the Job-procedure.

Risk assessment of SDS and job procedures

Below is a list of Non-substance hazards

On the Enterprise plan, user can open for exposure registrations for a work procedure







On the Job procedure risk assessment, the risks will be listed for use without PPE and Controls and the risk with Controls.

SDS Manager use a risk classification range from 1-5 for (H)ealth, (S)afety and (E)nvironment where 3 is highest acceptable risk for employees

In below example, we can see that all Health risks are medium high (H3) while the safety risk is very low (S1).

Risk assessment of SDS and job procedures

The controls identified on the Job procedure are displayed on any secondary container labels available for any users of the SDS Inventory Manager.

Controls in place	
Symbol	Comment
	Wear cotton suit
	Wear protective glasses
	Do not eat during work procedure
	No open flame
	Rinse with lots of water for at least 10 minutes if substance is in contact with the skin
	Call firedepartment in case of accident

Job procedures can be approved and revised.

Below is an example of a Job hazard analysis created in SDS Manager:

Risk assessment of SDS and job procedures

Job hazard analysis report

Confirm I have read the job procedure

Job procedure title	3D printer cleaning and refill refrigerated Argon
Frequency of job procedure	Monthly
Locations	Demo site Eng
Persons at risk	User of the substance
Substance form	Liquid
Last revised	2022-12-14
Description of procedure	Monthly cleaning of 3D printer and refill Argon.
Description of Job steps	The first thing you should do is remove the vat from the 3D printer and then drain the leftover resin into the plastic bottles you have. Use the funnel and filter to make this process easier. You can reuse the resin after you have finished cleaning the vat.
Description of Hazards	Refrigerated Argon is very dangerous to get on the skin. Fumes from the Resin must not be inhaled.
Description of Controls	Use described PPE

Risk categories	Without controls	With controls
Eyes	H3	H3
Skin	H4	H3
Inhalation/Respiration	H3	H3
Corrosive	H3	H3
Flammable	S1	S1
Pressurized	S2	S2
Environment	E1	E1

PPE and Controls

Substance: LIQUID RESIN CLEANER



[Open SDS](#)

How should the substance be used? Clean accordint to descriptin on 3D printer operation manual.	What is the substance used for? Clean 3D printer
Storage requirements keep locked	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.
Hazard and precautionary statements H290: May be corrosive to metals H314: Causes severe skin burns and eye damage H335: May cause respiratory irritation	

Hazards and controls		
Flammable	Not Dangerous Controls in place No smoking	Very low
Environment	Not Dangerous	Very low
Corrosive	Hazardous Controls in place Wear protective clothing Do Not Leave Waste	Medium
Eyes	Hazardous Controls in place Wear a face shield	Medium
Skin	Hazardous Controls in place Wear protective clothing	Medium
Inhalation/Respiration	Hazardous Controls in place Wear half-mask respirators	Medium

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