







SDS Inventory Manager in use

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 Inventory Manager interface. At the top, there are tabs for 'General' (selected), 'Hazard', 'Revision', 'Risk', and 'Custom Fields'. Below the tabs, the interface is organized into columns: 'Pictograms & Controls', 'Substance hazard' (with sub-columns H, S, E), and 'Actions'. The main area shows a list of chemical entries. Each entry includes hazard pictograms, hazard codes (e.g., H1, S1, E1), and a set of action icons. A context menu is open over the third entry, listing various actions such as 'Move SDS', 'Log presence of product', 'Create risk evaluation' (highlighted with a red box), 'Move to archive', 'Hide from Non-admin', 'Safety information summary', 'Replace with new SDS', 'Edit SDS information', 'Add EAN code', and '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).

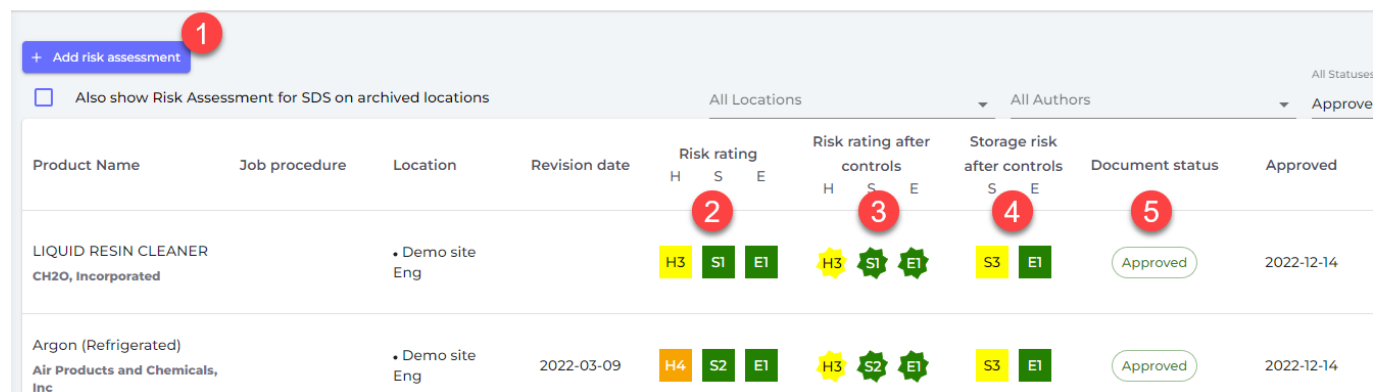
As part of the risk assessment, you can document required PPE and other controls required for safe handling, storage and disposal of the product. You can also determine the level of risk in handling and storing the chemical when used according to procedures and precautions documented in the

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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:

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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 |  Not Dangerous  Very low Controls in place  No smoking |
|  Environment |  Not Dangerous  Very low |
|  Corrosive |  Hazardous  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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Unique solution ID: #1087

Author: n/a

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