



Pistoia Alliance Chemical Safety Library (CSL)

CONTAINS LAB SAFETY INCIDENTS
REPORTED BY USERS OR REPORTED
IN THE LITERATURE

SEARCH BY CHEMICAL NAME OR
CAS REGISTRY NUMBER

[HTTPS://SAFESCIENCE.CAS.ORG/](https://safescience.cas.org/)





Pistoia Alliance

[+ Submit an Incident](#)

The Pistoia Alliance Chemical Safety Library (CSL) provides unique crowd sourced data content containing hazardous reactions that can be used to alert scientists to potential dangerous experiments. CAS, a division of the American Chemical Society, is committed to increasing safety in the lab and has provided this open access platform to serve scientists worldwide.







Search by CAS Registry Number, CSL Number, Chemical Name, SMILES, InChi, InChi Key, or MCFD Numbers



[Learn more about boolean searching in the Chemical Safety Library.](#) By using the Chemical Safety Library you agree to the [Terms of Use](#).

Pistoia Alliance Chemical Safety Library (CSL)

 Search Results for dms 2 Results[+ Submit an Incident](#)

	CSL Number 	Reagent(s) Name 	Warning Message 	Source 
1	CSL00022	Hydrogen peroxide (7722-84-1) DMSO (67-68-5)	Overpressurization Hazard if heated above 150 degrees C	C&EN 
2	CSL00002	DMSO (67-68-5) perchloric acid (7601-90-3)	mixture can result in explosion	User-Reported 

CSL Search Results

Chemical Safety Library Hazardous Reaction Incident Submission Form

Thank you so much for contributing to the Pistoia Alliance Chemical Safety Library (CSL), a community crowd-sourced collection of hazardous reaction incidents, those "reactions gone wrong in the lab." This important new source allows all of us to learn from the wider-community's experiences.

Your entry (excluding your contact information) will be published to the CSL database, and will be deposited in PubChem (section 12.8.3.1). [You can request a copy of the entire database](#) (as a .csv file) from the Chemical Safety Library administrator.

Enter your reaction incident information in the form below. Be as complete as possible. Our curators will enter the data you provide into the CSL database. If they have any questions about your entry, they will be in touch via email.

Hazardous Reaction Incident Submission Form

CSL Hazardous Reaction Incident Submission Form

Name and Institution are NOT displayed in published CSL records. This information is needed for CSL admin reviewers if they have questions and need to contact a submitter.

Required Field*

Name

Company or Institution*

Grace Baysinger

Source*

Literature Citation

DOI Link

Enter the DOI URL for the literature citation, if available.

Warning Message*

Please enter as much detail as possible about the incident and what could have been done to prevent it

Enter a DOI into ZoteroBib - <https://zbib.org/> - to quickly and easily get a citation. Scroll down the page to choose a different style format. The ACS Style Quick Guide - <https://pubs.acs.org/doi/full/10.1021/acsguide.40303> - has examples you can use too.

CAMEO Chemicals sample citation: Diisopropyl peroxydicarbonate. CAMEO Chemicals. NOAA/EPA. <https://cameochemicals.noaa.gov/chemical/953> (accessed 2023-06-26). (CAS RN: 105-64-6)

To make DOI a usable hypertext link, precede DOI with

<https://doi.org/>

Example: <https://doi.org/10.1021/jacs.3c03627>

Warning Message: Reactivity Profile information in CAMEO Chemicals - <https://cameochemicals.noaa.gov/> - have reaction incide information. Also see ACS Publications Author Guidelines about Safety Considerations that include recommendations about creating safety caution statements - https://publish.acs.org/publish/author_guidelines?coden=acscii#safety_considerations

CSL Hazardous Reaction Incident Submission Form

Substance (Reactants/Reagents/Solvents/Catalysts) in the reaction involved in this Incident Report*

Substance 1 - Name*

Use Semicolons As A Delimiter

Substance 1 - CAS#

Substance 1 - Role*

Substance 2 - Name*

Use Semicolons As A Delimiter

Substance 2 - CAS#

Substance 2 - Role*

Roles include:

Reactant
Reagent
Solvent
Catalyst
Product
Unknown

Note that incompatibility between two substances is not enough. The two or more substances must be involved in hazardous or potentially hazardous reaction to be accepted into the CSL database.

Possible values for substances include an individual substance name, an element, or a compound class name. While CAS Registry Numbers are available for individual substances and elements, no CAS Registry Numbers are assigned to compound class names.

It is okay to use an acronym for a substance but please also add a chemical substance name too. To locate names, synonyms, and CAS Registry Numbers use CAS Common Chemistry - <https://commonchemistry.cas.org/> - or SciFinder.

+ Add Another Substance

CSL Hazardous Reaction Incident Submission Form

Reaction Class

GHS Category

Scale (with units)

Additional Information

Enter additional details that you would like to share about the event, or additional citations and doi links

By submitting this form, I agree to the [Terms of Use](#).

Submit Report

Globally Harmonized System for Classifying Individual Chemical Substances. Can select multiple values that apply to substances involved in the hazardous reaction.

Selected list of reaction classes. Can select multiple values. Last choice is "Other" that allows submitters to add an additional reaction class name.

Scale options include:
Small (up to 1g)
Medium (up to 100g)
Large (>100g)
Not available

Do NOT include health hazards or emergency response recommendations because this information may be incomplete and may become outdated.