

PFAS CAS instructional sheet

This instructional sheet shows emissions inventory reporters how to read Safety Data Sheets (SDS) to determine whether the materials used at their facility contain Per- and polyfluoroalkyl substances (PFAS) that the air portion of the [PFAS Monitoring Plan](#) is requesting facilities to report.

Each material used at a facility has a Safety Data Sheet (SDS). These generally take the form found in the Occupational Safety and Health Administration’s (OSHA’s) [Safety Data Sheets communication](#). Figure 1 (below) contains an example SDS. Section 3 of the SDS will contain a list of chemical ingredients and possibly will include the Chemical Abstracts Service (CAS) number for each ingredient.

Does the material contain reportable PFAS?

For each ingredient:

1. Locate the [CAS Number](#) for each ingredient, found in Section 3 of the SDS. If there is no CAS number, then search an online tool by Chemical Name (see instructions below).
2. Compare CAS Number from step 1 to the pollutants identified as “PFAS Monitoring Plan, OTM-45” in MPCA’s list of [reportable air toxics](#) (Air Toxics List sheet, Notes for Group column).
3. If the CAS Number is in MPCA’s list, then estimate air emissions of the compound and report them to MPCA via [e-Services](#).

Figure 1: SDS Example

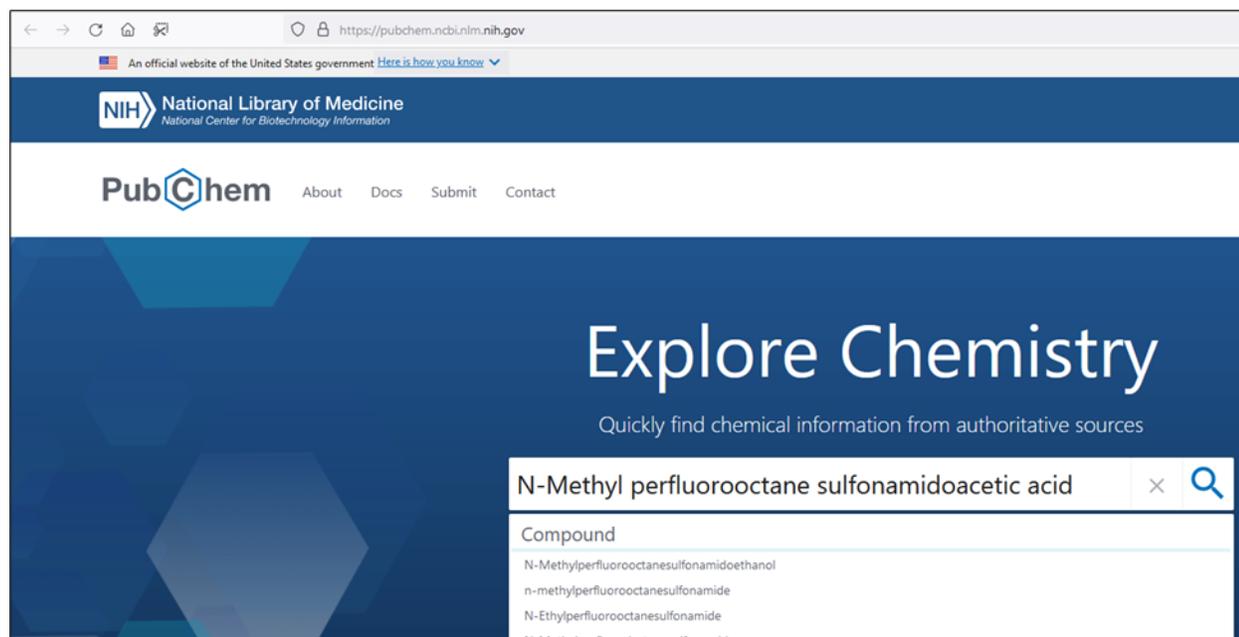
<i>Manufacturer</i>		Page: 2	
SAFETY DATA SHEET		Revision Date: 1/1/2023	
		Print Date: 1/1/2023	
		SDS Number: 000000XXXXXX	
<i>Product Name</i>		Version: 1.1	
SECTION 2 (continued). HAZARDS IDENTIFICATION			
IF exposed or concerned: Get medical advice/ attention.			
Storage: Store locked up.			
Disposal: Dispose of contents/ container to an approved waste disposal plant.			
Other hazards None known.			
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS			
Substance / Mixture		: Mixture	
Chemical nature		: Defatter	
Hazardous components			
Chemical Name	CAS-No.	Classification	Concentration (%)
Triethylene glycol monomethyl ether, borate	30989-05-0	Not a hazardous substance or mixture.	40.00
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	Eye Dam. 1; H318	17.99
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	Eye Dam. 1; H318	13.00
TETRAETHYLENE GLYCOL	112-60-7	Not a hazardous	10.00

Determine CAS number if not found in SDS

If there is no CAS number listed for an ingredient, then use an online tool like [NIH's PubChem](#) or [EPA's Comptox](#) to determine the CAS number for the ingredient.

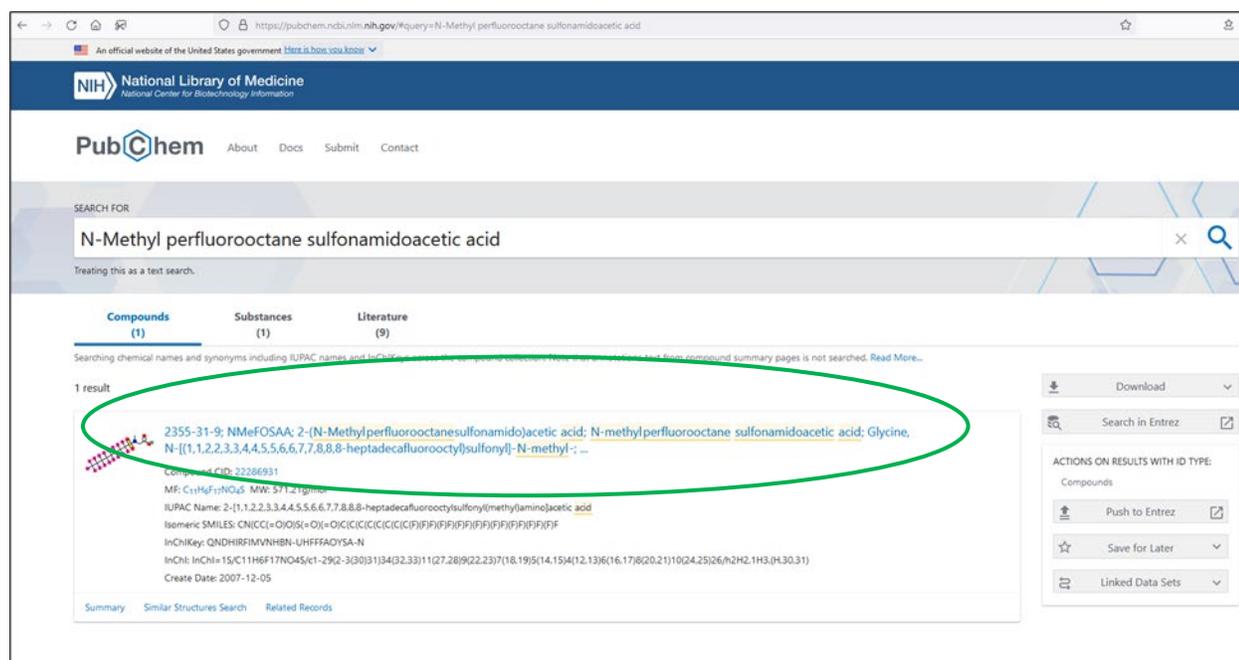
For example, if the Chemical Name is "N-Methyl perfluorooctane sulfonamidoacetic acid" in Section 3 of the SDS, then enter it into the NIH PubChem search field and click the search icon (a magnifying glass) as in Figure 2.

Figure 2: NIH PubChem search webpage



Select the blue link at the top of the first result box shown in Figure 3.

Figure 3: NIH PubChem search result webpage



On the resulting screen, scroll down to Locate the CAS Number under section “2.3.1 CAS” as seen in Figure 4.

Figure 4: NIH PubChem compound summary CAS number location

