
OpenAsbestos

API DOCUMENTATION

Version 0.2

DOCUMENT CONTROL

Document

OpenAsbestos API Documentation

Current Version

Version	Date	Issued Pages	Reason For Issue
0.2	May 2022	All	Additions to 1, 2.1, 2.4, 3 and new 3.2

Previous Versions

Version	Date	Issued Pages	Reason For Issue
0.1	Jan 2022	All	First draft

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1. OVERVIEW

OpenAsbestos is used to host site records and provides a means to retrieve asbestos information from systems that host the registers and/or reports for those sites.

To get started, you will require an API key which can be requested from devadmin@openasbestos.org. You will also need to supply your register's and/or report's API URL and connection details.

The base URL of the API is located at <https://software.openasbestos.org>.

2. SITES

Sites are the properties or buildings that you want to lodge with OpenAsbestos.

All controls to manage the sites lodged can be found under /Sites.a5svc:

<https://software.openasbestos.org/Sites.a5svc>

2.1 Creating Sites

To lodge a site with OpenAsbestos, use the /create endpoint:

<https://software.openasbestos.org/Sites.a5svc/create>

The /create endpoint will accept a POST request with the following information.

Headers:

x-api-key:	Your API key.
------------	---------------

Body:

```
{
  "name": "string",
  "postcode": "string",
  "latitude": 0,
  "longitude": 0,
  "authEmailAddressRequired": true,
  "authEmailAddress": "string",
  "softwareProductSiteId": "string",
  "softwareProductSubSystemKey": "string",
  "softwareProductSecretKey": "string",
  "registerAvailable": false,
  "reportsAvailable": true
}
```

name:	The site name of the site.
postcode:	The postcode of the site.
latitude:	The latitude of the site.
longitude:	The longitude of the site.

authEmailAddressRequired:	Does the site need to be authorised before being made available by OpenAsbestos?
authEmailAddress:	Required if authEmailAddressRequired is true. The email address where an email will be sent to for site authorisation. The site will not be visible until it has been authorised.
softwareProductSiteId:	The identifier from the system making the POST so that OpenAsbestos can use this as a reference when requesting register data.
softwareProductSubSystemKey:	An optional key, such as an API key, that can be used so that OpenAsbestos can authenticate with your software product.
softwareProductSecretKey:	An optional secret key that can be used to authenticate with your software product.
registerAvailable	Is a register available for the site?
reportsAvailable	Are reports available for the site?

Responses:

201 - Site Created	The site was created successfully. The siteId created will be returned.
--------------------	---

```
{
  "siteId": "string"
}
```

400 - Bad Request	A bad request was made.
-------------------	-------------------------

2.2 Updating Sites

You can update a site's information by doing a PUT request against the siteId:

<https://software.openasbestos.org/Sites.a5svc/{siteId}>

You can only update sites that you have created.

Headers:

x-api-key:	Your API key.
------------	---------------

Path:

{siteid}:	Replace with the siteId you want to update.
-----------	---

Body:

```
{
  "name": "string",
  "postcode": "string",
  "latitude": 0,
  "longitude": 0
}
```

name:	The site name of the site.
postcode:	The postcode of the site.
latitude:	The latitude of the site.
longitude:	The longitude of the site.

Each part of the body is optional and is not required. For example, if you want to update only the site name, then the body could simply contain:

```
{
  "name": "string"
}
```

Reponses:

200 - Site Updated	Site updated successfully.
400 - Bad request	A bad request was made.
403 - Forbidden	You do not have permission to update the site.
404 - Site not found	No site could be found with that ID.

2.3 Deleting Sites

You can delete a site by doing a DELETE request against the siteId:

<https://software.openasbestos.org/Sites.a5svc/{siteId}>

You can only delete sites that you have created.

Headers:

x-api-key:	Your API key.
------------	---------------

Path:

{siteid}:	Replace with the siteid you want to delete.
-----------	---

Reponses:

200 - Site Updated	Site deleted successfully.
400 - Bad request	A bad request was made.
403 - Forbidden	You do not have permission to delete the site.
404 - Site not found	No site could be found with that ID.

2.4 Retrieving Site Information

You can retrieve a site's information by doing a GET request against the siteid:

<https://software.openasbestos.org/Sites.a5svc/{siteid}>

You can retrieve any site on OpenAsbestos as long as you know the Site ID. No API key is required.

Only sites that have been approved will return data.

Path:

{siteid}:	Replace with the siteid you want to retrieve.
-----------	---

Reponses:

200 - Site Updated	Site found.
--------------------	-------------

```
{
  "name": "string",
  "postcode": "string",
  "latitude": 0,
  "longitude": 0,
  "registerAvailable" false,
  "reportsAvailable" true
}
```

400 - Bad request	A bad request was made.
404 - Site not found	No site could be found with that ID.

3. REGISTERS & REPORTS

Registers and/or reports can be retrieved once you have a valid Site ID from OpenAsbestos.

OpenAsbestos will use the URL associated with the software product that logged the site record to retrieve the register and/or reports.

OpenAsbestos will use softwareProductSiteId, softwareProductSubSystemKey and softwareProductSecretKey appropriately when formulating the URL to retrieve the register and/or reports.

All register controls are under /Registers.a5svc:

<https://software.openasbestos.org/Registers.a5svc>

All controls for reports are under /Reports.a5svc:

<https://software.openasbestos.org/Reports.a5svc>

3.1 Retrieving Registers

You can retrieve a site's register by doing a GET request against the siteId:

<https://software.openasbestos.org/Registers.a5svc/{siteId}>

You can retrieve any site register on OpenAsbestos as long as you know the Site ID. No API key is required.

Only sites that have been approved will return data.

Path:

{siteid}:	Replace with the siteId you want to retrieve.
-----------	---

Reponses:

200 - Site Updated	Register found.
--------------------	-----------------

```
{
  "buildingName": "string",
  "floor": "string",
  "location": "string",
  "locationDescription": "string",
  "item": "string",
  "materialDescription": "string",
  "extent": "string",
  "uom": "string",
  "approachDescription": "string",
  "sampleNumber": "string",
  "sampleNotes": "string",
  "identification": "string",
  "asbestosTypeScore": 0,
  "conditionScore": 0,
  "conditionDescription": "string",
  "surfaceTreatmentScore": 0,
  "surfaceTreatmentDescription": "string",
  "productTypeScore": 0,
  "productTypeDescription": "string",
  "materialScore": 0,
  "priorityScore": 0,
  "totalScore": 0,
  "notes": "string",
  "photoFilename": "base64",
  "closeUpPhotoFilename": "base64"
}
```

400 - Bad request	A bad request was made.
404 - Site not found	No site could be found with that ID.

3.2 Retrieving Reports

You can retrieve a site's report by doing a GET request against the siteid:

<https://software.openasbestos.org/Reports.a5svc/{siteid}>

You can retrieve any report on OpenAsbestos as long as you know the Site ID. No API key is required.

Only sites that have been approved will return data.

Path:

{siteid}:	Replace with the siteid you want to retrieve.
-----------	---

Reponses:

200 - Site Updated	Register found.
--------------------	-----------------

```
{
  "fileName": "string",
  "data": "base64"
}
```

400 - Bad request	A bad request was made.
404 - Site not found	No site could be found with that ID.

4. SEARCHING

OpenAsbestos provides endpoints for searching for data. All search controls are under /Search.a5svc:

<https://software.openasbestos.org/Search.a5svc>

4.1 Sites

You can search for a site using the /sites endpoint:

<https://software.openasbestos.org/Search.a5svc/sites>

The site search allows you to search using name and postcode.

Searching by site name:

<https://software.openasbestos.org/Search.a5svc/sites?name=siteName>

Searching by site postcode:

<https://software.openasbestos.org/Search.a5svc/sites?postcode=sitePostcode>

Searching by site name and site postcode:

<https://software.openasbestos.org/Search.a5svc/sites?name=siteName&postcode=sitePostcode>

Reponses:

200 - Site Updated	<i>Search completed successfully.</i>
--------------------	---------------------------------------

```
{
  "name": "string",
  "postcode": "string",
  "latitude": 0,
  "longitude": 0
}
```

400 - Bad request	A bad request was made.
-------------------	-------------------------