



# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 1 of 8

Sections



WH1314900

## 1. Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

|                             |   |                         |  |     |
|-----------------------------|---|-------------------------|--|-----|
| Product name                | <a href="#">Diacetoxyscirpenol (DAS)</a>  | Formula                 | C <sub>19</sub> H <sub>26</sub> O <sub>7</sub> |     |
| Product Code                | DAS   | Molecular weight        | 366.41 g/mol                                   |     |
| CAS#                        | <a href="#">2270-40-8</a> / <a href="#">11011-10-2</a>  | Mixture?                | Not mixture                                    |     |
| <a href="#">ECHA#</a>       | <a href="#">218-873-3</a>   | <a href="#">PUBCHEM</a> | 15571694                                       |     |
| <a href="#">HSDB</a>        | <a href="#">7244</a>  | <a href="#">RTECS</a>   | YD0112000                                      |     |
| <a href="#">Comptox EPA</a> | <a href="#">80891791</a>  | <a href="#">CHEBI</a>   | <a href="#">4478</a>                           |     |
| Synonyms                    | 4,15-Di-O-acetylscirpenol   | Diacetoxyscirpenol      | Anguidine                                      | DAS |
|                             | <ul style="list-style-type: none"> <li>Trichothec-9-ene-3-<math>\alpha</math>,4-<math>\beta</math>,15-triol, 12,13-epoxy-, 4,15-diacetate</li> <li>3-<math>\alpha</math>-Hydroxy-4-<math>\beta</math>,15-diacetoxy-12,13-epoxytrichothec-9-ene</li> </ul> |                         |  |     |

Source

From: *Fusarium* sp

Vers Date

8 October, 2024

### 1.2. Intended uses of the Not mixture and uses advised against

#### 1.2.1. Intended use:

Research and development.  
Laboratory reagent.  
Reference material.  
Manufacturing of substances.  
To be used by professionals only

#### 1.2.2. Uses advised against:

Not a drug,  
Not a food additive  
Not to be used in humans or animals.

### 1.3. Contacts

#### 1.3.1. Details of the supplier of the SDS

FERMENTEK ltd  
4 Yatziv street, POB 47120  
Jerusalem 97800,  
Israel

Tel: +972 2 5853953  
Fax: +972 2 5853943  
eMail: [Fermentek@Fermentek.com](mailto:Fermentek@Fermentek.com)  
[Safety@Fermentek.com](mailto:Safety@Fermentek.com)  
Website: [Fermentek.com](http://Fermentek.com)

This company is the manufacturer of the product and the supplier of the safety data sheet

#### 1.3.2. Emergency Telephone number

For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night:  
Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 2 of 8

Sections



WH1314900

## 2. Hazards' identification.

### 2.1. Classification of the DAS

#### 2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

|                            |        |      |  |
|----------------------------|--------|------|--|
| Acute Toxicity, Ingestion  | Cat.2  | H300 | Fatal if swallowed                       |
| Acute Toxicity, Inhalation | Cat.2  | H330 | Fatal if in contact with skin            |
| Acute Toxicity, Dermal     | Cat.2  | H310 | Fatal if inhaled                         |
| Skin Irritation            | Cat.2  | H315 | Causes skin irritation                   |
| Eye Irritation             | Cat.2  | H319 | Causes serious eye irritation            |
| Reproductive toxicity      | Cat.1B | H360 | May damage fertility or the unborn child |

### 2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: {   } Signal word: {Danger }

#### 2.2.2. Hazard Statements

|                |   |
|----------------|---|
| H300+H310+H330 | Fatal if swallowed, if inhaled, if inhaled                |
| H315           | Causes skin irritation                                    |
| H319           | Causes serious eye irritation (supporting info not found) |
| H360           | May damage fertility or the unborn child                  |

#### 2.2.3. GHS Precautionary Statements

|      |  |
|------|--|
| P203 | Obtain, read and follow all safety instructions before use.                                  |
| P261 | Avoid breathing dust or mist.  |
| P264 | Wash {hands} thoroughly after handling.  |
| P270 | Do not eat, drink or smoke when using this product.  |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                       |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection |

#### 2.2.4. GHS Response Phrases:

|                            |   |
|----------------------------|---|
| P301+P316, P330            | <b>IF SWALLOWED:</b> Get emergency medical help immediately. Rinse mouth.   |
| P302+P352, P316, P361+P364 | <b>IF ON SKIN:</b> wash with plenty of water. Get emergency medical help immediately. Take off immediately all contaminated clothing, and wash it before reuse                        |
| P304+P340, P316,           | <b>IF INHALED:</b> Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately  |
| P305+P351+P338, P337+P317  | <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists: Get medical help. |





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 3 of 8

Sections



WH1314900

P318 *If exposed or concerned, get medical advice.*

## 3. Composition/information on ingredients

|                           |   |
|---------------------------|---|
| <i>Not mixture</i>        |   |
| <i>Substance Name:</i>    | <i>Diacetoxyscirpenol (DAS)</i>   |
| <i>Concentration</i>      | <i>&lt;=100%</i>  |
| <i>CAS Registry#:</i>     | <i>2270-40-8</i>  |
| <i>EC#:</i>               | <i>218-873-3</i>  |
| <i>Molecular Formula:</i> | <i>C<sub>19</sub>H<sub>26</sub>O<sub>7</sub></i>                                    |
| <i>Molecular Weight:</i>  | <i>366.41 g/mol</i>   |
| <i>Classification</i>     | <i>Acc.tox I:2, O:2,D:2 (H300,H310,H330) Irrit E:2,S:2(H319,H315),Repr 1B(H360)</i> |
| <i>Mixture?</i>           | <i>Not mixture</i>  |

## 4. First Aid Measures.

### 4.1. Description of First Aid Measures.

|                        |  |
|------------------------|--|
| <i>General advice:</i> | <i>First-aiders need to protect themselves.<br/>If medical attention is required, show this safety data sheet to the doctor in attendance.</i>   |
| <i>Eye contact:</i>    | <i>Rinse out with plenty of water. Remove contact lenses.</i>  |
| <i>Skin Contact:</i>   | <i>In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.</i>   |
| <i>Ingestion:</i>      | <i>If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.</i> |
| <i>Inhalation:</i>     | <i>If inhaled, move the person into fresh air.</i>   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                         |                                |
|-------------------------|--------------------------------|
| <i>General symptoms</i> | <a href="#">See section 11</a> |
|-------------------------|--------------------------------|

### 4.3. Indication of any immediate medical attention and special treatment needed

|                           |                          |
|---------------------------|--------------------------|
| <i>Note to physicians</i> | <i>No data available</i> |
|---------------------------|--------------------------|

## 5. Fire-fighting measures.

### 5.1. Extinguishing media.

|                                     |   |
|-------------------------------------|---|
| <i>Suitable extinguishing media</i> | <i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i> |
|-------------------------------------|---|





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 4 of 8

Sections



WH1314900

|                                |            |
|--------------------------------|------------|
| Unsuitable extinguishing media | None known |
|--------------------------------|------------|

## 5.2. Other information

|                               |   |
|-------------------------------|---|
| Hazardous combustion products | Carbon oxides<br><i>Formula C<sub>19</sub>H<sub>26</sub>O<sub>7</sub></i> |
|-------------------------------|---|

|                         |  |
|-------------------------|--|
| Advice for firefighters | Wear self-contained breathing apparatus for fire fighting if necessary.<br>Wear protective suit. |
|-------------------------|--|

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

|                      |  |
|----------------------|--|
| Personal precautions | Use personal protective equipment as required. Keep people away from and upwind of spill/leak. |
|----------------------|--|

### 6.2. Environmental precautions

|                           |   |
|---------------------------|---|
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. |
|---------------------------|---|

### 6.3. Methods and material for containment and cleaning up

|                          |   |
|--------------------------|---|
| Methods for containment: | Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. |
|--------------------------|---|

|                          |   |
|--------------------------|---|
| Methods for cleaning up: | Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal. |
|--------------------------|---|

## 7. Handling and storage

### 7.1. Precautions for safe handling

|                          |  |
|--------------------------|--|
| Advice on safe handling: | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. |
|--------------------------|--|

### 7.2. Conditions for safe storage, including any incompatibilities

|                     |   |
|---------------------|---|
| Storage Conditions: | Keep container tightly closed in a dry and well-ventilated place.<br>Keep out of the reach of children.<br>Store at -20 °C. |
|---------------------|---|

|                    |  |
|--------------------|--|
| Suitable packaging | Must only be kept in original packaging. |
|--------------------|--|

|                         |  |
|-------------------------|--|
| Incompatible materials: | None known based on information available. |
|-------------------------|--|





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 5 of 8

Sections



WH1314900

## 8. Exposure Controls/Personal Protection

### 8.1. Control parameters

Control parameters

Components with workplace control parameters

### 8.2. Exposure controls

Appropriate engineering controls

Showers, Eyewash stations, Ventilation systems

Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and immediately after handling the product.

Use fume-hood for routine work.

### 8.3. Personal protective equipment

[PPE=Personal Protection Equipment]

PPE: Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

PPE: Hand Protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands

PPE: Eye Protection:

Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

PPE: Skin and Body Protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

## 9. Physical and chemical properties

### 9.1. Physical/chemical properties

Physical State at room temperature

Solid

Appearance

Powder, White

No further safety relevant data are available

## 10. Stability and reactivity

Reactivity:

No information available.







# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 6 of 8

Sections



WH1314900

|                                    |                                    |
|------------------------------------|------------------------------------|
| Chemical stability:                | Stable under normal conditions.    |
| Conditions to avoid                | Heat, flames and sparks. Sunlight. |
| Incompatible materials             | Strong reducers and oxidizers      |
| Possibility of Hazardous Reactions | None under normal processing       |
| Hazardous combustion products      | See section 5                      |

## 11. Toxicological information

### 11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

#### 11.1.1. Acute Toxicity

|  |  |
|--|--|
| Acute toxicity:                              | Oral, Rat; LD50 = 7mg/kg<br>Oral, Mouse, LD50=7.3 mg/kg                |
| Skin corrosion/irritation:                   | Mild irritation reported   |
| Serious eye damage/eye irritation:           | Other authors claim serious eye irritation (supporting info not found) |
| Respiratory or skin sensitization/corrosion: | irritant   |

#### 11.1.2. Chronic toxicity

|                  |                   |
|------------------|-------------------|
| Chronic toxicity | No data available |
|------------------|-------------------|

#### 11.1.3. CRM (Carcinogen, Mutagen, Reproductive hazards)

|   |  |
|---|--|
| Germ cell mutagenicity:                 | EPA GENETOX PROGRAM 1988 :Negative/ Inconclusive<br>Other authors claim mutagenicity w/o supporting data   |
| Carcinogenicity:                        | No data available.   |
| Reproductive toxicity / Teratogenicity: | Mouse ♀, IP, 9d postconception, TDLO=1 mg/kg<br><b>Fertility</b> - post-implantation mortality<br><b>Fetotoxicity</b><br><b>Teratogenicity</b> - specific developmental abnormalities - craniofacial (including nose and tongue); body wall; CNS |

## 11.2. Additional information

|                  |   |
|------------------|---|
| RTECS number     | YD0112000   |
| General symptoms | <b>Liver</b> - other changes<br><b>Blood</b> - pigmented or nucleated red blood cells. Normocytic anemia. changes in bone marrow.<br><b>Gastrointestinal</b> - hypermotility, diarrhea. nausea or vomiting.<br><b>Behavioral</b> - somnolence (general depressed activity).<br><b>Behavioral</b> : muscle weakness;<br><b>Gastrointestinal</b> : nausea or vomiting |





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 7 of 8

Sections



WH1314900

**Cardiac:** pulse rate.

**Lungs, thorax, or respiration:** cyanosis.

**Skin and appendages dermatitis, allergic:** after topical exposure

## 12. Ecological Information

**Eco-Toxicity** No data available

**Other adverse effects** No data available

## 13. Disposal Considerations

### 13.1. Waste treatment methods

**Waste Disposal** Dispose of in accordance with local regulations

**Contaminated packaging** Dispose of as unused product

## 14. Transport information

### 14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

**UN Number** UN 3462: Toxins, Extracted from Living Sources, Solid, N.O.S. (Diacetoxyscirpenol (DAS) )  
**UN proper shipping name** UN 2811-Toxic Solid, Organic, N.O.S. (Diacetoxyscirpenol (DAS) )

**Transport Hazard Class & Packing Group** Class 6.1 (Poison) ; Packing group II

## 15. Regulatory information

### 15.1. Safety, health, and environmental regulations/legislation

**USA EPA / TSCA** This product is not listed on the USA EPA TSCA (it is for research)

**EU ECHA Status** This product is registered with the EU ECHA, Number 218-873-3  
REACH: Neither Registered nor PreRegistered.  
ANNEX III (criteria for 1 - 10 tons registered substances): Not Listed

## 16. Other information

### 16.1. Version information

**Version date:**

### 16.2. Department issuing this SDS

Quality systems and regulatory affairs

### 16.3. General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### 16.4. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the use of this product.





# Safety Data Sheet: *Diacetoxyscirpenol (DAS)*

SDS Diacetoscirpenol DAS Vers 8-2024 Page 8 of 8

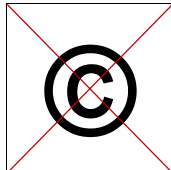
Sections



WH1314900

All recommendations included in this document, are advisory in nature.  
The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

## 16.5. No-Copyright statement



Fermentek does not claim © copyright on this document.  
Fermentek believes that no one can claim copyright on an SDS. This sort of document is but a compendium of common knowledge and published facts.  
Fermentek explicitly releases this document into the public domain.

## 16.6. Abbreviations and acronyms:

|             |   |
|-------------|---|
| Acute Tox.: | Acute toxicity  |
| CAS:        | Chemical Abstracts Service                                    |
| Comptox     | CompTox Chemicals Dashboard Resource Hub (EPA)                |
| DOT:        | US Department of Transportation                               |
| ECHA        | European Chemicals Agency                                     |
| EINECS:     | European Inventory of Existing Commercial Chemical Substances |
| EPA         | United States Environmental Protection Agency                 |
| Eye Dam.:   | Serious eye damage/eye irritation                             |
| HSDB        | Hazardous Substances Data Bank                                |
| HMIS:       | Hazardous Materials Identification System (USA)               |
| IATA:       | International Air Transport Association                       |
| IMDG:       | International Maritime Code for Dangerous Goods               |
| LC50:       | Lethal concentration, Median                                  |
| LD50:       | Lethal dose, Median   |
| LDL0        | Lethal dose, least published                                  |
| NDG         | Not dangerous goods (for transport)                           |
| NFPA:       | National Fire Protection Association USA                      |
| NIOSH:      | National Institute for Occupational Safety                    |
| OSHA:       | Occupational Safety & Health                                  |
| PBT:        | Persistent, Bioaccumulative, and Toxic                        |
| PEL:        | Permissible Exposure Limit                                    |
| REL:        | Recommended Exposure Limit                                    |
| Repr.:      | Reproductive toxicity   |
| RTECS:      | Registry of Toxic Effects of Chemical Substances              |
| Skin Irrit: | Skin corrosion/irritation                                     |
| STOT/SE     | Specific target organ toxicity/Single exposure                |
| STOT/RE     | Specific target organ toxicity/Repeated exposure              |
| T3DB        | Toxin and Toxin Target Database                               |
| TDL0        | Toxic dose, least published                                   |

## 16.7. End of SDS

