## Phosphorodithioic acid, S-[(4,6-diamino-1,3,5-triazin-2-yl)methyl] O,O-dimethyl ester (cas 78-57-9) MSDS

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSDS</strong></td>
<td>Phosphorodithioic acid, S-[(4,6-diamino-s-triazin-2-yl)methyl] O,O-dimethyl ester</td>
</tr>
<tr>
<td><strong>CAS</strong></td>
<td>78-57-9</td>
</tr>
</tbody>
</table>
| **SYNONYMS**   | * Azidithion  
* 2,4-Diamino-6-dimethoxyphosphinothionylthiomethyl-s-triazine  
* S-((4,6-Diamino-1,3,5-triazin-2-yl)-methyl)-O,O-dimethyl-dithiofosfaat  
* S-((4,6-Diamino-1,3,5-triazin-2-yl)-methyl)-O,O-dimethyl-dithiophosphat  
* 4,6-Diamino-1,3,5-triazin-2-ylmethyl O,O-dimethyl phosphorodithioate  
* S-((4,6-Diamino-s-triazin-2-yl)methyl) O,O-dimethyl phosphorodithioate  
* S-(4,6-Diamino-1,3,5-triazin-2-ylmethyl) O,O-dimethyl phosphorodithioate  
* S-(4,6-Diamino-1,3,5-triazin-2-ylmethyl) dimethyl phosphorothiolothionate  
* S-((4,6-Diamino-1,3,5-triazin-2-yl)methyl)phosphorodithioic acid O,O-dimethyl ester  
* 2-Dimethoxyphosphinothioylthiomethyl-4,6-diamino-s-triazine  
* O,O-Dimethyl S-(4,6-diamino-1,3,5-triazinyl-2-methyl) dithiophosphate  
* O,O-Dimethyl S-(4,6-diamino-s-triazin-2-ylmethyl)phosphorodithioate  
* O,O-Dimethyl S-(4,6-diamino-1,3,5-triazin-2-ylmethyl) methyl phosphorodithioate  
* O,O-Dimethyl S-(4,6-diamino-1,3,5-triazin-2-yl)methyl phosphorothiolothionate  
* Dithiophosphate de O,O-dimethyle et de S-((4,6-diamino-1,3,5-triazine-2-yl)-methyle)  
* ENT 25,760  
* Menazon  
* PP175  
* R 15,175  
* Saiphos  
* Saphicol  
* Saphizon  
* Saphizon-DP  
* Sayfos  
* Sayphos  
* s-Triazine-2-methanethiol, 4,6-diamino-, S-ester with O,O-dimethylphosphorodithioate |
**Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers**

[Phosphorodithioic acid,S-((4,6-diamino-s-triazin-2-yl)methyl) O,O-dimethylester 78-57-9]

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**CHEMICAL IDENTIFICATION**

- **RTECS NUMBER**: TD5600000
- **CHEMICAL NAME**: Phosphorodithioic acid, S-((4,6-diamino-s-triazin-2-yl)methyl) O,O-dimethylester
- **CAS REGISTRY NUMBER**: 78-57-9
- **BEILSTEIN REFERENCE NO.**: 0668792
- **LAST UPDATED**: 199703
- **DATA ITEMS CITED**: 7
- **MOLECULAR FORMULA**: C6-H12-N5-O2-P-S2
- **MOLECULAR WEIGHT**: 281.32
- **WISWESSER LINE NOTATION**: T6N CN ENJ BZ DZ F1IFSPW1O1
- **COMPOUND DESCRIPTOR**: Agricultural Chemical Mutagen

**SYNONYMS/TRADE NAMES**:

* Azidithion
* 2,4-Diamo-no-6-dimethoxyphosphinothionylthiomethyl-s-triazine
* S-((4,6-Diamo-no-1,3,5-triazi-n-2-yl)-methyl)-O,O-dimethyl-dithiofosfaat
* S-((4,6-Diamo-no-1,3,5-triazi-n-2-yl)-methyl)-O,O-dimethyl-dithiophosphat
* 4,6-Diamo-no-1,3,5-triazi-n-2-ylmethyl O,O-dimethyl phosphorodithioate
* S-((4,6-Diamo-no-s-triazi-n-2-yl)-methyl) O,O-dimethyl phosphorodithioate
* S-((4,6-Diamo-no-1,3,5-triazi-n-2-yl)methyl) O,O-dimethyl phosphorodithioate
* S-((4,6-Diamo-no-1,3,5-triazi-n-2-yl)methyl) dimethyl phosphorothiolothionate
* S-((4,6-Diamo-no-1,3,5-triazi-n-2-yl)methyl)phosphorodithioic acid O,O-dimethylester
* 2-Dimethoxyphosphinothioylthiomethyl-4,6-diamino-s-triazine
* O,O-Dimethyl S-((4,6-diamo-no-1,3,5-triazi-nyl-2-methyl) dithiophosphate
* O,O-Dimethyl S-((4,6-diamo-no-s-triazi-n-2-ylmethyl)phosphorodithioate
* O,O-Dimethyl S-((4,6-diamo-no-1,3,5-triazi-n-2-yl)methyl phosphorodithioate
* O,O-Dimethyl S-((4,6-diamo-no-1,3,5-triazi-n-2-yl)methyl phosphorothiolothionate
* Dithiophosphate de O,O-dimethyle et de S-((4,6-diamo-no-1,3,5-triazi-n-2-yl)-methyl)
* ENT 25,760
* Menazon
* PP175
* R 15,175
* Saiphos
* Sapihicol
* Sapihison
** ACUTE TOXICITY DATA **

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>LD50 - Lethal dose, 50 percent kill</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Oral</td>
</tr>
<tr>
<td>SPECIES OBSERVED</td>
<td>Rodent - rat</td>
</tr>
<tr>
<td>DOSE/DURATION</td>
<td>890 mg/kg</td>
</tr>
<tr>
<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
</tr>
<tr>
<td>REFERENCE</td>
<td>ARSIM* Agricultural Research Service, USDA Information Memorandum. (Beltsville, MD 20705) Volume(issue)/page/year: 20,14,1966</td>
</tr>
</tbody>
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<tbody>
<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Administration onto the skin</td>
</tr>
<tr>
<td>SPECIES OBSERVED</td>
<td>Rodent - rat</td>
</tr>
<tr>
<td>DOSE/DURATION</td>
<td>&gt;2 gm/kg</td>
</tr>
<tr>
<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
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<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Oral</td>
</tr>
<tr>
<td>SPECIES OBSERVED</td>
<td>Rodent - mouse</td>
</tr>
<tr>
<td>DOSE/DURATION</td>
<td>427 mg/kg</td>
</tr>
<tr>
<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
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<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Administration onto the skin</td>
</tr>
</tbody>
</table>
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : >800 mg/kg

TOXIC EFFECTS :
- Details of toxic effects not reported other than lethal dose value

REFERENCE:
SPEADM Special Publication of the Entomological Society of America. (4603 Calvert Rd., College Park, MD 20740) Volume(issue)/page/year: 78-1,48,1978

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Bird - chicken
DOSE/DURATION : 487 mg/kg

TOXIC EFFECTS :
- Behavioral - convulsions or effect on seizure threshold

REFERENCE:

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Unreported
SPECIES OBSERVED : Mammal - species unspecified
DOSE/DURATION : 900 mg/kg

TOXIC EFFECTS :
- Details of toxic effects not reported other than lethal dose value

REFERENCE:

** MUTATION DATA **

TYPE OF TEST : Mutation in microorganisms
TEST SYSTEM : yeast - Saccharomyces cerevisiae
DOSE/DURATION : 5 ppm

REFERENCE:
RSTUDV Rivista di Scienza e Technologia degli Alimenti e di Nutrizione Umana. Review of Science and Technology of Food and Human Nutrition. (Bologna, Italy) V.5-6, 1975-76. Discontinued. Volume(issue)/page/year: 6,161,1976

*** END OF RECORD ***