1. Identification

Product identifier used on the label

**Irgasan® DP 300**

Recommended use of the chemical and restriction on use

* The “Recommended use” identified for this product is provided solely to comply with a Federal requirement and is not part of the seller’s published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller’s sales agreement.

Details of the supplier of the safety data sheet

**Company:**
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Synonyms: Not Available. Use: cosmetic ingredient.

2. Hazards Identification


**Classification of the product**

<table>
<thead>
<tr>
<th>Type of Hazard</th>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr./Irrit.</td>
<td>2</td>
<td>Skin corrosion/irritation</td>
</tr>
<tr>
<td>Eye Dam./Irrit.</td>
<td>2A</td>
<td>Serious eye damage/eye irritation</td>
</tr>
<tr>
<td>Aquatic Acute</td>
<td>1</td>
<td>Hazardous to the aquatic environment - acute</td>
</tr>
<tr>
<td>Aquatic Chronic</td>
<td>1</td>
<td>Hazardous to the aquatic environment - chronic</td>
</tr>
<tr>
<td>Combustible Dust</td>
<td>Combustible Dust (1)</td>
<td>Combustible Dust</td>
</tr>
</tbody>
</table>

**Label elements**

Pictogram:
Signal Word: Warning

Hazard Statement:
- May form combustible dust concentration in air. H319
- Causes serious eye irritation. H315
- Causes skin irritation. H400
- Very toxic to aquatic life. H410

Precautionary Statements (Prevention):
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye/face protection.
- P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
- P391 Collect spillage.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):
- P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients


<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Weight %</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>75.0 - 100.0%</td>
<td>Organic antimicrobial</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.
If on skin:
Wash thoroughly with soap and water.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed
Note to physician
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media
Suitable extinguishing media:
- dry powder, foam

Unsuitable extinguishing media for safety reasons:
- carbon dioxide

Additional information:
Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture
Hazards during fire-fighting:
- harmful vapours, carbon oxides
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures

Further accidental release measures:
Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.
Further accidental release measures:
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up
For small amounts: Pick up with suitable appliance and dispose of.
For large amounts: Contain with dust binding material and dispose of.
Avoid raising dust. Dispose of absorbed material in accordance with regulations.

Nonsparking tools should be used.

7. Handling and Storage

Precautions for safe handling
Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:
Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Conditions for safe storage, including any incompatibilities
Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed and dry. Keep at temperature not exceeding 40 °C.

Storage stability:
Storage temperature: <= 40 °C
Protect from temperatures above: 40 °C

8. Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:
It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to
prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Personal protective equipment**

**Respiratory protection:**
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.


**Hand protection:**
Wear chemical resistant protective gloves.

**Eye protection:**
Tightly fitting safety goggles (chemical goggles) and face shield.

**Body protection:**
Body protection must be chosen based on level of activity and exposure.

**General safety and hygiene measures:**
Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>fine powder</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>white to light beige</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>56.4 °C (1,013 hPa)</td>
<td>Directive 84/449/EEC, A.1</td>
</tr>
<tr>
<td>Boiling point</td>
<td>not applicable</td>
<td>OECD Guideline 103</td>
</tr>
<tr>
<td>Decomposition point</td>
<td>&gt; 253 °C</td>
<td>OECD Guideline 103</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>not highly flammable</td>
<td>Directive 84/449/EEC, A.10</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>For solids not relevant for classification and labelling.</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>For solids not relevant for classification and labelling.</td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.0000003 hPa (20 °C)</td>
<td>OECD Guideline 104</td>
</tr>
<tr>
<td>Density</td>
<td>1.55 g/cm³ (22 °C, 1,013 hPa)</td>
<td>OECD Guideline 109</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>0.6 - 0.9 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>The product is a non-volatile solid.</td>
<td></td>
</tr>
<tr>
<td>Partitioning coefficient n-octanol/water (log Pow)</td>
<td>4.9 (20 °C)</td>
<td>measured</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>&gt; 350 °C</td>
<td></td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

Chemical stability
The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions
Stable under normal conditions.
No hazardous reactions when stored and handled according to instructions.

Conditions to avoid
Avoid electro-static charge. Avoid dust formation. Avoid deposition of dust.

Incompatible materials
strong oxidizing agents, strong bases, strong acids, chlorinating agents

Hazardous decomposition products

Decomposition products:
Possible thermal decomposition products: chlorine compounds

Thermal decomposition:
> 350 °C

11. Toxicological information

Primary routes of exposure
Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Oral
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg (OECD Guideline 401)

Inhalation
Type of value: LC50
Species: rat
Value: > 140 mg/m3

Dermal
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg (OECD Guideline 402)

Assessment other acute effects
Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion
Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Skin
Species: rabbit
Result: Irritant.
Method: OECD Guideline 404

Information on: Organic antimicrobial
Species: rabbit
Result: Irritant.
Method: Draize test

Eye
Species: rabbit
Result: Irritant.
Method: OECD Guideline 405

Information on: Organic antimicrobial
Species: rabbit
Result: Irritant.
Method: OECD Guideline 405

Sensitization
Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Buehler test
Species: guinea pig
Result: Non-sensitizing.
Method: OECD Guideline 406

Aspiration Hazard
not applicable

Chronic Toxicity/Effects

Repeated dose toxicity
Assessment of repeated dose toxicity: Repeated oral exposure to large quantities may affect certain organs. Damages the kidneys.

Genetic toxicity
Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in a test with mammals.
Genetic toxicity in vitro: Ames-test Salmonella typhimurium: with and without metabolic activation negative
Genetic toxicity in vivo: Micronucleus assay mouse (CD-1) gavage negative

Carcinogenicity
Assessment of carcinogenicity: None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity
Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity
Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other Information
(Humans) Phototoxicity: Not phototoxic by dermal route. (Humans) Photoallergy: The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity
Aquatic toxicity
Assessment of aquatic toxicity:
Very toxic (acute effect) to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

Toxicity to fish
LC50 (96 h) 0.54 mg/l, Brachydanio rerio (OECD Guideline 203, static)
The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates
EC50 (48 h) 0.427 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The details of the toxic effect relate to the nominal concentration.

Aquatic plants
EC50 (72 h) 1.61 µg/l (growth rate), Desmodesmus subspicatus (Algal growth inhibition test, static)
The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish
No observed effect concentration (96 d) 34.1 µg/l, Oncorhynchus mykiss (OPP 72-4 (EPA-Guideline), Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

**Chronic toxicity to aquatic invertebrates**

No observed effect concentration (21 d) 0.04 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

The details of the toxic effect relate to the nominal concentration.

**Aquatic toxicity**

*Information on: Organic antimicrobial*

*Assessment of aquatic toxicity:*

Very toxic (acute effect) to aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

----------------------------------

**Other terrestrial non-mammals**

No observed effect concentration (14 d) < 147 mg/kg, Colinus virginianus (OPP 71-1: (EPA-guideline))

LC50 (8 d) > 2,150 mg/kg, Colinus virginianus

**Microorganisms/Effect on activated sludge**

Toxicity to microorganisms

OECD Guideline 209 aquatic activated sludge, domestic/EC50 (3 h): 11 mg/l

The details of the toxic effect relate to the nominal concentration.

**Persistence and degradability**

*Assessment biodegradation and elimination (H2O)*

Not readily biodegradable (by OECD criteria). Easily eliminated from water.

*Elimination information*

37 % BOD of the ThOD (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic)

99.4 % Specific analysis (14 d) (OECD 302B; ISO 9888; 88/302/EEC,part C) (aerobic, activated sludge, domestic)

*Assessment of stability in water*

In contact with water the substance will hydrolyse slowly.

*Information on Stability in Water (Hydrolysis)*

$t_{1/2} > 1$ a (25 °C, pH value 7), (Directive 92/69/EEC, C.7)

**Bioaccumulative potential**

*Assessment bioaccumulation potential*

May be accumulated in organisms.

Bioaccumulation potential

Bioconcentration factor: 4,157 (35 (j)), Brachydano rerio (OECD Guideline 305 C)

**Mobility in soil**
Assessment transport between environmental compartments
The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

Additional information

Sum parameter

Chemical oxygen demand (COD): 1,116 mg/g

Biochemical oxygen demand (BOD) Incubation period 5 d: 0 mg/g

Adsorbable organically-bound halogen (AOX): 36.7 %

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:
Do not allow to enter soil, waterways or waste water channels.

13. Disposal considerations

Waste disposal of substance:
Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with national, state and local regulations.
Dispose of in accordance with local authority regulations.

Container disposal:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Dispose of in accordance with national, state and local regulations. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

RCRA:
Not a hazardous waste under RCRA (40 CFR 261).

14. Transport Information

Land transport
USDOT
Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains TRICLOSAN)

Sea transport
IMDG
Hazard class: 9
Packing group: III
ID number: UN 3077
15. Regulatory Information

Federal Regulations

Registration status:
Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Fire (Combustible Dust); Acute

<table>
<thead>
<tr>
<th>CERCLA RQ</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 LBS</td>
<td>7440-36-0; 7440-47-3; 7440-50-8</td>
<td>antimony; chromium; copper</td>
</tr>
<tr>
<td>100 LBS</td>
<td>7440-02-0; 120-83-2</td>
<td>Nickel; 2,4-dichlorophenol</td>
</tr>
<tr>
<td>10 LBS</td>
<td>7439-92-1; 7440-43-9</td>
<td>lead; cadmium</td>
</tr>
<tr>
<td>1 LBS</td>
<td>7440-38-2; 7439-97-6</td>
<td>arsenic; mercury</td>
</tr>
</tbody>
</table>

NFPA Hazard codes:
Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating
Health: 2 Flammability: 1 Physical hazard: 1

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2017/06/09

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operations on society and the environment during production, storage, transport, use and disposal of our products.

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