

# Safety Data Sheet

## Tinuvin® 900

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Version: 6.0

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(30472149/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Tinuvin® 900

#### Recommended use of the chemical and restriction on use

Recommended use\*: stabilizer

Unsuitable for use: The product is not recommended to be used in contact with mucous membranes, abraded skin, or blood; or for the manufacture of implants for the human body as it has not been tested for these applications.

For detailed regulatory information please request a Food Contact Certificate (FCC).

\* 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

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Molecular formula: C30 H29 N3 O

Synonyms: Phenol, 2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)-

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

Combustible Dust

Combustible Dust (1)

Combustible Dust

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### Label elements

Signal Word:  
Warning

Hazard Statement:  
May form combustible dust concentration in air.

### Hazards not otherwise classified

The product is under certain conditions capable of dust explosion.

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## 3. Composition / Information on Ingredients

### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Under the referenced regulation, this product does not contain any components classified for health hazards above the relevant cut off value.

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## 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:**  
Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, seek medical attention.

**If in eyes:**  
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If irritation develops, seek medical attention.

**If swallowed:**  
Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting. Immediate medical attention required.

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

Symptoms: No applicable information available.

### 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.

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### 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

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.

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### 6. Accidental release measures

#### Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). 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.

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

Avoid dust formation. Use personal protective clothing.

#### Environmental precautions

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

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

Nonsparking tools should be used.

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### 7. Handling and Storage

#### Precautions for safe handling

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Closed containers should only be opened in well-ventilated areas. Avoid dust formation. Do not use any sparking tools.

Protection against fire and explosion:

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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. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. 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. 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.

Dust explosion class: Dust explosion class 3 (Kst-value >300 bar m s-1).

### Conditions for safe storage, including any incompatibilities

No applicable information available.

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

The packed product is not damaged by low temperatures or by frost.

The packed product will not be damaged by high temperatures.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

The nuisance dust limit value is to be kept.

Particles, not otherwise specified, respirable	ACGIH, US:	TWA value 3 mg/m3 Respirable particles ;
	OSHA Z3:	TWA value 5 mg/m3 Respirable fraction ;
	OSHA Z3:	TWA value 15 mg/m3 Total dust ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;
	OSHA Z3:	TWA value 15 millions of particles per cubic foot of air Respirable fraction ;
Particles, not otherwise specified, inhalable	ACGIH, US:	TWA value 10 mg/m3 Inhalable particles ;
	OSHA Z3:	TWA value 15 mg/m3 Total dust ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;

No substance specific 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:**

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

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Observe OSHA regulations for respirator use (29 CFR 1910.134).

### Hand protection:

Wear chemical resistant protective gloves.

### Eye protection:

Safety glasses with side-shields.

### Body protection:

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

### General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	powder	
Odour:	odourless	
Odour threshold:	No applicable information available.	
Colour:	yellowish	
pH value:	5.4 - 6.5 ( 1 %(m), 20 - 25 °C) (as aqueous solution)	
melting range:	137 - 141 °C	
Boiling point:	not applicable	
Sublimation point:	No applicable information available.	
Flash point:	> 150 °C	
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Autoignition:	440 °C	
	400 °C	(BAM)
Vapour pressure:	0.000001 hPa ( 25 °C)	(OECD Guideline 104)
Density:	1.22 g/cm <sup>3</sup> ( 20 °C)	
Relative density:	No data available.	
Bulk density:	300 - 450 kg/m <sup>3</sup>	
Vapour density:	No data available.	
Partitioning coefficient n-octanol/water (log Pow):	approx. 6.5 ( 20 - 25 °C)	(OECD Guideline 107)
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 350 °C	
Viscosity, dynamic:	not determined	
Particle size:	D50 24 µm	(measured)
% volatiles:	0.5 %	
Solubility in water:	< 0.005 mg/l ( 20 °C)	
Molar mass:	447.58 g/mol	
Evaporation rate:	The product is a non-volatile solid.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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### 10. Stability and Reactivity

#### Reactivity

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
not determined

Dust explosivity characteristics:  
Kst: 320 m.bar/s  
Reevaluation 2015

Dust explosion class:  
Dust explosion class 3 (Kst-value >300 bar m s-1) (St 3)

Minimum ignition energy:

No data available.

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

Dust explosion hazard.

#### Conditions to avoid

Avoid dust formation. Avoid deposition of dust. Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

#### Incompatible materials

strong acids, strong bases, strong oxidizing agents

#### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

> 350 °C

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### 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

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### Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

### Oral

Type of value: LD50  
Species: rat  
Value: > 7,750 mg/kg (similar to OECD guideline 401)

### Inhalation

No data available.

### Dermal

Type of value: LD50  
Species: rat  
Value: > 2,000 mg/kg (OECD Guideline 402)  
No mortality was observed.

### 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: Not irritating to the skin. Not irritating to the eyes.

### Skin

Species: rabbit  
Result: non-irritant  
Method: Draize test

### Eye

Species: rabbit  
Result: non-irritant  
Method: Draize test

### Sensitization

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

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: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The effects were only observed at doses/concentrations not relevant for classification and/or practical use conditions.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

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### Carcinogenicity

Assessment of carcinogenicity: Based on the ingredients there is no suspicion of a carcinogenic effect in humans.

### Reproductive toxicity

Assessment of reproduction toxicity: Repeated oral uptake of the substance did not cause damage to the reproductive organs.

### Teratogenicity

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

### Other Information

Toxic effects on liver observed in animal study

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

#### Toxicity to fish

LC50 (96 h) > 67 mg/l, Brachydanio rerio (OECD Guideline 203)

No effects at the highest test concentration. Tested above maximum solubility.

#### Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

The product has low solubility in the test medium. A saturated solution has been tested. Limit concentration test only (LIMIT test). No toxic effects occur within the range of solubility. Nominal concentration.

#### Aquatic plants

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (Screening test)

#### Chronic toxicity to fish

No data available.

#### Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d)  $\geq$  10 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

Limit concentration test only (LIMIT test). No toxic effects occur within the range of solubility. Nominal concentration.

#### Assessment of terrestrial toxicity

No toxic effects have been observed in studies with soil living organisms.

#### Soil living organisms

Toxicity to soil dwelling organisms:



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No observed effect concentration (56 d) > 1,000 mg/kg, Eisenia foetida (OECD Guideline 222, artificial soil)

No effects at the highest test concentration.

### Toxicity to terrestrial plants

No data available.

### Other terrestrial non-mammals

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

OECD Guideline 209 static

activated sludge/EC50 (3 h): > 100 mg/l

Limit concentration test only (LIMIT test). Nominal concentration.

## Persistence and degradability

### Assessment biodegradation and elimination (H2O)

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

### Elimination information

3 - 6 % (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Not readily biodegradable (by OECD criteria).

### Assessment of stability in water

No data available.

Study scientifically not justified. Study technically not feasible.

### Information on Stability in Water (Hydrolysis)

Study scientifically not justified. Study technically not feasible.

## Bioaccumulative potential

### Assessment bioaccumulation potential

Accumulation in organisms is not to be expected.

### Bioaccumulation potential

Bioconcentration factor: 12.3

## Mobility in soil

### Assessment transport between environmental compartments

No data available.

Adsorption to solid soil phase is expected.

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## 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.

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### Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

### RCRA:

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

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## 14. Transport Information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including ETHYLBENZENE, which is known to the State of California to cause cancer, and METHANOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### **BASF Risk Assessment, CA Prop. 65:**

A risk assessment indicates CA Proposition 65 Safe Harbor criteria are not exceeded when the product is used for Plastic Additives.

#### **NFPA Hazard codes:**

Health: 1 Fire: 1 Reactivity: 0 Special:

#### **HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

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### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2021/08/16

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