



We create chemistry

BASF Corporation

SYNTHETIC TURF RESOURCES CORP
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(0004669598)

07.03.2024
BASF Corporation
100 Park Avenue
Florham Park, NJ 07932

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Product safety data sheets for our products

Dear valued customer,

The enclosed safety data sheet is generated by our automatic distribution system and is sent to you either because it relates to a current order or because a significant change has occurred in the data previously provided.

This safety data sheet replaces the previous version, which is no longer valid.
Please pass these safety data sheets on to the appropriate people.

Queries concerning the content of safety data sheets should be sent direct to the business office indicated in the safety data sheet or to your normal sales contact.

If the product(s) contains chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372, these chemicals are listed in Section 15 of the SDS. If you are unsure of your responsibilities under the Emergency Planning and Community Right-To-Know Act; or you require more information; call the EPA Hotline (1-800-424-9346).

For your convenience we can offer to send the safety data sheets for our products by e-mail as pdf files. Please review and complete page 2 of this letter if you are interested in receiving an e-mail method of distribution.

Best regards

BASF Corporation

Computer generated letter bearing no signature.

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Tel: +1 800 526-1072

www.basf.com/usa



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Enclosures:

Material name		Our order #:	Your order #:
Irgafos® 168	I	0163530103	311002628/511043

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E-mail address (old): _____

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e-mail (contact person):

Date, Signature

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 1/12

(30497213/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Irgafos® 168

Recommended use of the chemical and restriction on use

Recommended use*: antioxidant

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

Light stabilizers and other plastic additives

E-mail address: RegXcellencePlasticAdditives@basf.com

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

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

Other means of identification

Synonyms: Tris(2,4-di-tert.-butylphenyl)phosphite

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

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31
Version: 8.0

Page: 2/12
(30497213/SDS_GEN_US/EN)

Label elements

Signal Word:
Warning

Hazard Statement:

May form combustible dust concentration in air.

Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. The product is under certain conditions capable of dust explosion.

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.

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.

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31
Version: 8.0

Page: 3/12
(30497213/SDS_GEN_US/EN)

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.

Impact Sensitivity:

Number of positive reactions: 0

Assessment: not shock-sensitive

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.

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 4/12

(30497213/SDS_GEN_US/EN)

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:

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 2 (Kst-value 200 up to 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.

8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

The nuisance dust limit value is to be kept.

Particles, not otherwise specified, respirable	ACGIH, US:	TWA value 3 mg/m3 Respirable particles ;
	OSHA Z1A:	TWA value 5 mg/m3 Respirable fraction ;
	OSHA Z1A:	TWA value 15 mg/m3 Total dust ;
	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 Z1A:	TWA value 15 mg/m3 Total dust ;
	OSHA Z3:	TWA value 15 mg/m3 Total dust ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;

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.

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 5/12

(30497213/SDS_GEN_US/EN)

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.

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 depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. 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

Form:	crystalline, powder	
Odour:	odourless	
Odour threshold:	not determined	
Colour:	white	
pH value:	6 (1 %(m), 20 - 25 °C) (as suspension)	
Melting point:	185.2 °C	(Directive 92/69/EEC, A.1)
Freezing point:	No applicable information available.	
boiling temperature:	> 400 °C (1,013 hPa)	(OECD Guideline 103)
Sublimation point:	No applicable information available.	
Flash point:	> 150 °C	(DIN 51584)
Flammability:	not highly flammable	(Directive 84/449/EEC, A.10)
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	400 °C	
Vapour pressure:	< 0.0000085 hPa (20 °C)	(measured)
Density:	1.021 g/cm3 (20 °C)	(OECD Guideline 109)
Bulk density:	480 - 570 kg/m3	
Partitioning coefficient n-octanol/water (log Pow):	> 6	(calculated)
Self-ignition temperature:	not self-igniting	(Directive 84/449/EEC, A.16)
Thermal decomposition:	not self-igniting	
Viscosity, dynamic:	> 350 °C (Isoperibolic (Lütolf oven))	
Particle size:	not applicable, the product is a solid D50 16.2 µm	(measured)

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 6/12

(30497213/SDS_GEN_US/EN)

Solubility in water:	< 0.005 mg/l (20 °C)
Molar mass:	646.93 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.

10. Stability and Reactivity

Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Dust explosivity characteristics:

Kst: 210 m.bar/s

Revaluation 2015

Dust explosion class:

Dust explosion class 2 (Kst-value 200 up to 300 bar m s-1) (St 2)

Minimum ignition energy:

No data available.

Formation of
flammable gases:

Remarks:

Oven temperature:

Specific decomposition gas volume: < 5 l/kg

Forms no flammable gases in the
presence of water.

220 °C

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 oxidizing agents, strong acids, strong bases

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:

> 350 °C (Isoperibolic (Lütolf oven))

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 7/12

(30497213/SDS_GEN_US/EN)

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

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Of low toxicity after short-term skin contact.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 6,000 mg/kg (similar to OECD guideline 401)

Type of value: LD50

Species: mouse (male/female)

Value: > 6,000 mg/kg (OECD Guideline 401)

Inhalation

No data available.

Dermal

Type of value: LD50

Species: rat (male/female)

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 eyes and skin.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Sensitization

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

Maurer optimisation test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31
Version: 8.0

Page: 8/12
(30497213/SDS_GEN_US/EN)

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

No adverse effects were observed after repeated exposure in animal studies.

Experimental/calculated data: similar to OECD guideline 453 rat (male/female) oral feed 105 weeks 250, 750, and 2000 ppm

NOAEL: 58 mg/kg 2000 ppm

similar to OECD guideline 408 rat (male/female) gavage 90 days 125, 250, 500, 1000 mg/kg

NOAEL: 1,000 mg/kg

similar to OECD guideline 409 dog (beagle) (male/female) oral feed 90 days 1000, 3000, 10000 ppm

NOAEL: > 318 mg/kg 10000 ppm

rat gavage 28 days

NOAEL: 250 mg/kg

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in microorganisms. The substance was not genotoxic in a test with mammals.

Genetic toxicity in vitro: similar to OECD guideline 471 Ames-test Salmonella typhimurium: with and without metabolic activation negative

other Gene mutation in Saccharomyces cerevisiae with and without metabolic activation negative

Genetic toxicity in vivo: Dominant lethal assay mouse (male) gavage negative

similar to OECD guideline 474 Micronucleus assay Chinese hamster (male/female) gavage negative

Mammalian germ cell cytogenetic assay mouse (male) intraperitoneal negative

Mammalian germ cell cytogenetic assay mouse (male) intraperitoneal negative

Sister chromatid exchange assay hamster (male/female) gavage negative

similar to OECD Guideline 475 Cytogenetic assay Chinese hamster (male/female) intraperitoneal negative

Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

Experimental/calculated data: similar to OECD guideline 453 rat (male/female) oral feed up to 147 mg/kg

Result: negative

Reproductive toxicity

Assessment of reproduction toxicity: On the basis of animal study findings, an effect on fertility cannot be excluded.

Teratogenicity

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

Other Information

No neurotoxic effects in a specific test carried out on chicken.

12. Ecological Information

Toxicity

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 9/12

(30497213/SDS_GEN_US/EN)

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely 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. No toxic effects have been observed in studies with sediment dwelling organisms.

Toxicity to fish

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EEC, C.1, static)

The LC50 is higher than the solubility limit. The product has low solubility in the test medium. An aqueous dispersion has been tested. The details of the toxic effect relate to the nominal concentration. Limit concentration test only (LIMIT test).

Aquatic invertebrates

EC0 (24 h) > 180 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The product has low solubility in the test medium. An aqueous dispersion has been tested. Tested above maximum solubility. No toxic effects occur within the range of solubility. Nominal concentration.

Aquatic plants

EC50 (72 h) > 75.2 mg/l (biomass), Scenedesmus subspicatus (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration. The value meets the highest applied test concentration. The product has low solubility in the test medium. An aqueous dispersion has been tested. Tested above maximum solubility.

No observed effect concentration (72 h) 75.2 mg/l (biomass), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration. The value meets the highest applied test concentration. The product has low solubility in the test medium. An aqueous dispersion has been tested. Tested above maximum solubility.

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) \geq 2 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

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

No observed effect concentration (28 d) 1000 mg/kg, Lumbriculus variegatus (OECD 225, static)

No effects at the highest test concentration. Nominal concentration. Limit concentration test only (LIMIT test).

Assessment of terrestrial toxicity

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

Other terrestrial non-mammals

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 aquatic

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

Nominal concentration.

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31
Version: 8.0

Page: 10/12
(30497213/SDS_GEN_US/EN)

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Poorly biodegradable. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Poorly biodegradable. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

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

Elimination information

< 10 % CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge) Poorly biodegradable.

Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis)

In contact with water the substance will hydrolyse slowly.

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Bioconcentration factor: (15 d), Brachydanio rerio (other)
Accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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.

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.

14. Transport Information

Land transport

USDOT

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31
Version: 8.0

Page: 11/12
(30497213/SDS_GEN_US/EN)

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

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. For more information, go to 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: 2 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 3 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2021/07/31

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Safety Data Sheet

Irgafos® 168

Revision date : 2021/07/31

Version: 8.0

Page: 12/12

(30497213/SDS_GEN_US/EN)

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