

Material Safety Data Sheet

OSHA / ANSI Z400.1-2004 Compliant



Date / Revised: 10-23-2007

Release: 1.1

Product: Tinuvin PUR 866

NFPA Hazard codes:

Health: 1

Fire: 1

Reactivity: 0

Special:

1. Identification of the Substance/Preparation and of the Company/Undertaking

Company Information

Company: Ciba Specialty Chemicals Corporation
540 White Plains Road
P.O. Box 2005
Tarrytown, NY 10591-9005
U.S.A.
Customer Service / Product Information: 1-800-474-4731
MSDS Request Line: 1-800-431-2360

Emergency information

Emergency 24-Hour Health/Environmental Phone: (24h) +1-800-873-1138
CHEMTREC: (800) 424-9300 (24hrs) or (703) 527-3887

Product information

Product: Tinuvin PUR 866
Use: Light stabilizer

2. Hazards Identification

Emergency overview

Signal word: CAUTION: !
Colour: White to off-white
Appearance: powder
State of matter: solid
Odour: odourless
Health: Repeated or prolonged exposure to this product may affect the immune system., (Based on components)
Physical/Chemical hazards: Refer to MSDS Section 7 for Dust Explosion information.

Potential health effects

Primary routes of entry:

Skin, Eyes, Inhalation, Ingestion

Potential environmental effects

The aquatic toxicity of this product has not been fully assessed. Releases to the environment are to be avoided.

3. Composition/Information on Ingredients

<u>Chemical name</u>	<u>CAS Number</u>	<u>Content (Weight)</u>	<u>Hazardous</u>
Confidential Stabilizer	Trade Secret	1.0 - 100.0 %	Y

This material is classified as hazardous under OSHA regulations.

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4. First-aid Measures

Inhalation:

Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

Skin:

If clothing is contaminated, remove and launder before reuse.
After contact with skin, wash immediately with plenty of water and soap.
Get medical attention if irritation occurs.

Eyes:

Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed.
Get immediate medical attention if irritation persists.

Ingestion:

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration.
Seek medical attention immediately.

5. Fire-fighting Measures

Suitable extinguishing media:

carbon dioxide, dry powder, foam, water spray

Hazardous combustion products:

Burning may produce toxic combustion products.

Hazards during fire-fighting:

Standard procedure for chemical fires.
The product can form an explosive dust/air mixture. For further information, see Section 7 Explosion Hazards.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

6. Accidental Release Measures

Cleanup:

Sweep up and shovel into suitable containers for disposal.
Avoid raising dust.
Wear suitable protective equipment.
Should not be released into the environment.

7. Handling and Storage

Handling

General advice:

As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact.
Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

Protection against fire and explosion:

Combustible powder. - Avoid creating dusty conditions. - Grounding is required when emptying into a conductive container. - When flammable solvents are present, the container must be inerted or the system otherwise designed to prevent or contain an explosion. Seek expert advice. In addition, for products packaged in fused-lined (coated) fiber drums, fiber drums with conductive liners, steel drums, steel pails, and Type " C " FIBC (bulk bags), or other conductive the following instructions also apply: - Always ground this package before emptying. The user is responsible for designing the system to handle solid and ensuring proper training of employees in the system's use.

Storage

General advice:

Keep container tightly closed in a dry, cool and well-ventilated place.

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> for industrial use only <

8. Exposure Controls and Personal Protection

Exposure Guidelines

Confidential Stabilizer	CIEL	8h TWA: 0.1 mg/m ³ (inhalable) Cutaneous absorption Effects on blood, thyroid and spleen observed in animal study
DUST	ACGIH	TWA: 10 mg/m ³ Inhalable particles. TWA: 3 mg/m ³ Respirable particles.
	OSHA	PEL: 5 mg/m ³ respirable fraction.
		PEL: 15 mg/m ³ Total dust
	Z1A	TWA: 5 mg/m ³ respirable fraction.
		TWA: 15 mg/m ³ Total dust
	OSHA	respirable fraction. Listed
		Total dust Listed
		TWA: 15 millions of particles per cubic foot of air respirable fraction.
		TWA: 50 millions of particles per cubic foot of air Total dust
		TWA: 5 mg/m ³ respirable fraction.
		TWA: 15 mg/m ³ Total dust
	US CA OEL	TWA PEL: 5 mg/m ³ respirable fraction.
		TWA PEL: 10 mg/m ³ Total dust

Engineering Controls:

Work in well ventilated areas. Do not breathe dust.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified respirator as necessary.

Eye protection:

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

Body protection:

Wear chemical resistant gloves and protective clothing.

General safety and hygiene measures:

There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

9. Physical and Chemical Properties

Colour:	White to off-white
Form:	powder
State of matter:	solid
Odour:	odourless

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pH value:		Not tested
Flammability:	Not tested	
Flash point:		Not tested
Self-ignition temperature:		Not tested
Melting point:		Not tested
Boiling point:		Not applicable
Vapour pressure:		Not tested
Density:		Not tested
Partitioning coefficient n-octanol/water (log Pow):		Not tested
% Volatiles:		not determined
Solubility in water:		Not tested
Solubility in other solvents:		Not tested
Autoignition:		Not tested
Decomposition temperature:		Not tested

10. Stability and Reactivity

Stability:

Stable

Conditions to avoid: Avoid electro-static discharge. Avoid sources of ignition.

Substances to avoid: Strong oxidizing agents, strong acids, strong bases.

Possibility of Hazardous Reactions: No hazardous reactions known.

Hazardous decomposition products: No decomposition expected under normal storage conditions.

11. Toxicological Information

Acute inhalation toxicity:

Information on: Confidential Stabilizer

There were no mortalities, Exposure to volatile material from thermal decomposition (200 C for one hour) resulted in no deaths or toxic symptoms.

Skin irritation:

(Rabbits) Not an irritant. (based on known component information)

Eye irritation:

(Rabbits) Not an irritant. (Based on components)

Skin Sensitization:

(Guinea Pig) Not a sensitizer. (based on known component information)

Subchronic Toxicity:

Information on: Confidential Stabilizer

An oral administration study was performed with rats that received daily doses of 0, 60, 100, 300, 600, and 1,000 mg/kg for 28 days. Abscesses in the spleen, abdominal lymph nodes and liver, along with alterations in white blood cell parameters and atrophy of the thymus, were observed down to the 60 mg/kg dose. During a 14-day dermal exposure study with mice, at levels of 0.7, 7 and 70 mg/kg, definite target organ effects were seen at a dose level of 70 mg/kg: decrease in thymus weight, increase in spleen weight and alterations in white blood cell parameters. At 7 mg/kg, an increase in spleen cell counts were seen; 0.7 mg/kg was the NOEL in this study.

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Genetic toxicity:

Not tested

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:

Not tested

Developmental toxicity/teratogenicity:

(Rats) No evidence of a teratogenic effect for an oral administration of 500 mg/kg during days 6 to 15 of pregnancy. The statements are based on the properties of the the individual components.

12. Ecological Information

Toxicity to fish:

Not tested

Toxicity to aquatic invertebrates:

Not tested

Toxicity to aquatic plants:

Not tested

Toxicity to microorganisms:

Not tested

Biodegradation:

Not tested

Other ecotoxicological advice:

Information on :
Low toxicity to aquatic organisms based on available data.

13. Disposal Considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

14. Transport Information

U.S. Department of Transportation

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

Road transport:

Special shipping information: Not classified as a dangerous good under transport regulations.

Air transport:

Special shipping information: Not classified as a dangerous good under transport regulations.

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Inland-waterway transport:

Special shipping information: Not classified as a dangerous good under transport regulations.

15. Regulatory Information

US: Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory

Canada: Domestic Substances List (DSL): All components either exempt or listed on the DSL

United States - Regulations

SARA Section 311/312 Hazard Communication Standard:

Acute Health:	N	Fire:	N
Chronic Health:	Y	Reactivity:	N
		Sudden release of pressure:	N

SARA Section 313 Toxic Chemical List:

No components listed.

OSHA hazard category:

This material is classified as hazardous under OSHA regulations.

Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR):

This product is not subject to a Significant New Use Rule (SNUR).

Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders:

This product is not subject to a Section 5(e) Consent Order.

Toxic Substances Control Act (TSCA) Section 5(f):

This product is not subject to a Section 5(f)/6(a) rule.

Toxic Substances Control Act (TSCA) Section 12(b) Export Notification:

No components listed.

Clean Air Act - Hazardous Air Pollutants (HAP):

This product does not contain any Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Clean Air Act 602 - Ozone Depleting Substances (ODS):

This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP):

This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15).

Pennsylvania Right to Know:

This product does not contain any components that are subject to the Pennsylvania Right-To-Know disclosure requirement.

California Proposition 65 - Chemicals Known to the State to Cause Cancer:

No components listed.

California Proposition 65 - Chemicals Known to the State to Cause Reproductive Toxicity:

No components listed.

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International Regulations

Chemical Weapons Convention:

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

16. Other Information

Disclaimer:

The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.

END OF DATA SHEET