

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Version no. : 2.0
Prepared on : 12.03.2026
Revised on : -

SECTION 1: Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifiers

Product name Dibenzoyl Thiamine
Product Number PSR50339
Brand PureSynth research chemicals
CAS No. 299-88-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company PureSynth Research Chemicals GmbH
64683 Einhausen Marie-Curie-Str. 3, Germany

1.4 Emergency telephone number

Worldwide Helpline No.: 1800-8908-260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, oral (Category 4)	H302
Skin corrosion/irritation (Category 2)	H315
Serious eye damage/eye irritation (Category 2A)	H319
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)	H335

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statement(s)

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulation.

2.3 Other hazards: None.

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Synonyms	Mol. formula	CAS number
(Z)-4-(N-((4-amino-2-methylpyrimidin-5-yl)methyl)formamido)-3-(benzoylthio)pent-3-en-1-yl benzoate	C ₂₆ H ₂₆ N ₄ O ₄ S	299-88-7
Component	Classification	Concentration
Dibenzoyl Thiamine	-	-

SECTION 4: First aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
If inhaled	Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.
In case of skin contact	Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.
In case of eye contact	Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.
If swallowed	Wash out mouth with water; Do NOT induce vomiting; call a physician.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2.2).
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media	
Suitable extinguishing media	Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.
Unsuitable extinguishing media	No data available
Special hazards arising from the substance or mixture	During combustion, may emit irritant fumes.

Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing

Further information

No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapours, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Refer to protective measures listed in sections 8.

Methods and materials for containment and cleaning up

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

Specific end use(s)

Shipping at room temperature if less than 2 weeks.

No data available.

SECTION 8: Exposure controls / Personal protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. Provide accessible safety shower and eye wash station.

Personal protective equipment:

Eye / face protection

Safety goggles with side-shields.

Skin and body protection

Impervious clothing.

Hand Protection

Protective gloves.

Respiratory protection

Suitable respirator.

Control of environmental exposure

Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

SECTION 9: Physical and chemical properties

Appearance	Form: Solid Colour: White
Odour	No data available
pH - Value	No data available
Density	No data available
Boiling Point	No data available
Melting Point	173°C
Solubility in water	No data available
Flash point	No data available
Vapour pressure	No data available
Auto -ignition temperature	No data available
Vapour density	No data available
Flammability (solid, gas)	No data available
Evaporation rate	No data available
Partition coefficient: n- octanol / water	No data available
Viscosity	No data available
Explosive properties	Not classified as explosive
Upper / lower flammability or explosive limits	No data available
Oxidizing properties	No data available

Other safety information: No data available

SECTION 10: Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Condition to avoid	No data available
Incompatible materials	Strong acids/alkalis, strong oxidising/reducing agents.
Hazardous decomposition products	Under fire conditions, may decompose and emit toxic fumes. Other decomposition products - no data available.

SECTION 11: Toxicological information

Acute toxicity	Classified based on available data. For more details, see section 2
Skin corrosion/irritation	Classified based on available data. For more details, see section 2
Serious eye damage/eye irritation	Classified based on available data. For more details, see section 2
Respiratory or skin sensitization	Classified based on available data. For more details, see section 2
Germ cell mutagenicity	Classified based on available data. For more details, see section 2
Carcinogenicity	ARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

Reproductive toxicity	Classified based on available data. For more details, see section 2
Specific target organ toxicity - single exposure	Classified based on available data. For more details, see section 2
Specific target organ toxicity - repeated exposure	Classified based on available data. For more details, see section 2
Aspiration hazard	Classified based on available data. For more details, see section 2
Additional Information	This information is based on our current knowledge. However the chemical, physical, and toxicological properties have not been completely investigated.

SECTION 12: Ecological information

Toxicity

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.
Endocrine disrupting properties	No data available
Other adverse effects	No data available

SECTION 13: Disposal considerations

Waste treatment methods	Dispose substance in accordance with prevailing country, federal, state and local regulations.
Contaminated packaging	Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR / RID	-	Not dangerous goods	-	-	-
IMDG	-	Not dangerous goods	-	-	-
IATA	-	Not dangerous goods	-	-	-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA Hazards.

Massachusetts Right To Know Components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or anyother Reproductive harm.

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.