SAFETY DATA SHEET

Ultraviolet Absorber 328

SUQIAN UNITECHEM CO., LTD

· According to GHS (Ninth Revised Edition)

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name	Ultraviolet Absorber 328
Synonyms	-
CAS No.	25973-55-1
EC No.	247-384-8
Molecular Formula	$C_{22}H_{29}N_3O$

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Light stabilizer
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name	SUQIAN UNITECHEM CO., LTD
Applicant Address	22, NANHUA RD, ECOLOGICAL CHEMICAL AND ECHNOLOGY INDUSTIAL PARK, SUQIAN, CHINA
Applicant Post Code	223800
Applicant Telephone	+86-527-80805270
Applicant Fax	+86-527-84829099
Applicant E-mail	TechSupport@china944.com
Supplier Name	SUQIAN UNITECHEM CO., LTD
Supplier Address	22, NANHUA RD, ECOLOGICAL CHEMICAL AND ECHNOLOGY INDUSTIAL PARK, SUQIAN, CHINA
Supplier Post Code	223800
Supplier Telephone	+86-527-80805270
Supplier Fax	+86-527-84829099
Supplier E-mail	TechSupport@china944.com

> Emergency Phone Number

Emergency Phone Number	+86-527-84836111

Section 2 Hazards Identification

> Hazard class and label elements of the product according to GHS:

> GHS Hazard Class

STOT RE 2

Aquatic Chronic 4

> GHS Label Elements

Pictogram

Signal Word Warning

> Hazard Statements

H373	May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.
H413	May cause long lasting harmful effects to aquatic life.

> Precautionary Statements

Prevention	
P260	Do not breathe dust/gas/mist/vapours.
P273	Avoid release to the environment.
Response	
P319	Get medical help if you feel unwell.
Disposal	
P501	Dispose of contents/container to hazardous or special waste collection point.

> Other Hazards

This substance meets the criteria for vPvB.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
2-(2H-Benzotriazol-2-yl)-4, 6-di-tert-pentylphenol	>=99.0	25973-55-1	247-384-8

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult 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) and/or in section 11.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

No information available.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media	dry powder, foam
Unsuitable Extinguishing Media	carbon dioxide

> Specific Hazards Arising from the Substance or Mixture

harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

> Advice for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Use personal protective clothing.

> Environmental Precautions

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.

Section 7 Handling and Storage

> Precautions for Handling

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

Avoid dust formation. Take precautionary measures against static discharges.
Dust explosion class: Dust explosion class 2 (Kst-value 200 up to 300 bar m s-1).

> Precautions for Storage

Keep container tightly closed and dry; store in a cool place.

> Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

No information available

> Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

> Personal Protection Equipment

Eye Protection	Safety glasses with side-shields (frame goggles) (e.g. EN 166)
Hand Protection	Chemical resistant protective gloves (EN 374) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.
Respiratory protection	Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)
Body Protection	Body protection must be chosen based on level of activity and exposure.
Control of environmental exposure	For information regarding environmental exposure controls, see Section 6.

Section 9 Physical and Chemical Properties

Appearance: Light yellow powder

Odor: odourless

Odor Threshold: No information available

pH: No information available

Melting Point/Freezing Point(℃) ： 79-87 - lit.

Initial Boiling Point and Boiling Range(℃): >180

Flash Point(℃) (Closed Cup): 229

Evaporation Rate: No information available

Flammability: not highly flammable

Upper/lower explosive limits[%(v/v)]: Upper limit: No information available; Lower limit: No information available

Vapor Pressure : No information available

Relative Vapour Density (Air=1): No information available

Relative Density (Water=1): 1,17 g/cm^3

Solubility: No information available

n-Octanol/Water partition Coefficient: No information available

Auto-Ignition Temperature(℃): No information available

Decomposition Temperature(℃): No information available

Kinematic Viscosity(mm2/s): No information available

Particle characteristics: No information available

Section 10 Stability and Reactivity

Reactivity	No information available
Chemical Stability	Stable under recommended storage conditions.
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	No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11 Toxicological Information

> Acute Toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.
LD50 rat (oral): > 7,750 mg/kg (similar to OECD guideline 401)
LC50 rat (by inhalation): > 0.4 mg/l 4 h (similar to OECD guideline 403)
LD50 rabbit (dermal): > 1,100 mg/kg (similar to OECD guideline 402)

> Skin Corrosion/Irritation

Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

> Serious Eye Damage/Irritation

non-irritant

> Respiratory Sensitization

Non-sensitizing.

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	25973-55-1	2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol	Not listed	Not Listed

> Reproductive Toxicity

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The results were determined in a Screening test (OECD 4211422).

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

RTECS: No information available

Section 12 Ecological Information

>Toxicity

Toxicity to fish:
LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, static)
Aquatic invertebrates:
EC50 (24 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
EC50 (48 h) > 0.083 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)
Aquatic plants:
EC50 (72 h) > 10 mg/l (biomass), Desmodesmus subspicatus (OECD Guideline 201, static)

> Others

Persistence and Degradability	Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria). Poorly biodegradable. Elimination information: 2 - 8 % CO2 formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC,C.4-C) (aerobic, activated sludge, domestic)
Bioaccumulative potential	Bioconcentration factor: 4,790 (56 d) (OECD Guideline 305 E) Accumulation in organisms is expected.
Mobility in Soil	Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is expected.
Results of PBT and vPvB Assessment	This substance meets the criteria for vPvB.

Section 13 Disposal Considerations

Waste Chemicals	Must be disposed of or incinerated in accordance with local regulations.
Contaminated Packaging	Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

Section 14 Transport Information

Transporting Label	No information available
UN Number	-
UN Proper Shipping Name	ADR/RID : Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport Hazard Class	None
Transport Subsidiary Hazard Class	None

Packing Group -

Section 15 Regulatory information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Ultraviolet Absorber 328	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical
【TSCA】 United States Toxic Substances Control Act Inventory
【DSL】 Canadian Domestic Substances List.
【IECSC】 China Inventory of Existing Chemical
【NZIoC】 New Zealand Inventory of Chemicals.
【PICCS】 Philippines Inventory of Chemical Substances
【KECI】 Existing and Evaluated Chemical Substances.
【AICS】 Australia Inventory of Chemical Substances.
【ENCS】 Existing and Evaluated Chemical Substances.

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

Section 16 Additional Information

Creation Date 2018/1/6
Revision Date 2024/6/3
Reason for Revision -

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user`s reference. Users should make their independent judgment of suitability of this information for their particular purpose. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handing, storage, use or disposal of the product.