

## Chemical Safety Data Sheet MSDS / SDS

## UV-320

Revision Date:2026-05-31 Revision Number:1

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

## Product identifier

Product name : UV-320  
CBnumber : CB4154994  
CAS : 3846-71-7  
EINECS Number : 223-346-6  
Synonyms : uv-320,Tinuvin 320

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

## Company Identification

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

## SECTION 2: Hazards identification

## GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Warning

## Precautionary statements

P273 Avoid release to the environment.  
P501 Dispose of contents/container to.....  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P314 Get medical advice/attention if you feel unwell.  
P501 Dispose of contents/container to.....  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.

P501 Dispose of contents/container to.....

#### **Hazard statements**

H373 May cause damage to organs through prolonged or repeated exposure

H351 Suspected of causing cancer

H412 Harmful to aquatic life with long lasting effects

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## **SECTION 3: Composition/information on ingredients**

### **Substance**

|              |                                                    |
|--------------|----------------------------------------------------|
| Product name | : UV-320                                           |
| Synonyms     | : uv-320, Tinuvin 320                              |
| CAS          | : 3846-71-7                                        |
| EC number    | : 223-346-6                                        |
| MF           | : C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O |
| MW           | : 323.43                                           |

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## **SECTION 4: First aid measures**

### **First Aid Measures**

#### **General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

#### **Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

#### **Skin Contact**

Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

#### **Inhalation**

Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation

#### **Ingestion**

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting.

#### **Self-protection of the first aider**

Use personal protective equipment as required.

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

#### **Symptoms**

No information available.

### **Indication of any immediate medical attention and special treatment needed**

#### **Note to physicians**

Treat symptomatically.

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## SECTION 5: Firefighting measures

### Suitable Extinguishing Media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

None.

### Specific hazards arising from the chemical

#### Specific hazards arising from the chemical

No information available.

#### Hazardous combustion products

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### Explosion data

#### Sensitivity to Mechanical Impact

No information available.

#### Sensitivity to Static Discharge

No information available.

### Protective equipment and precautions for firefighters

#### Protective equipment and precautions for firefighters

As in any fire, wear self contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Ensure adequate ventilation, especially in confined areas.

#### Environmental precautions

##### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at room temperature.

#### Incompatible materials

None known based on information supplied.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

#### Engineering Controls

Showers

Eyewash stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles.

#### Skin and Body Protection

Wear protective gloves and protective clothing.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

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## SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

|                              |                                            |
|------------------------------|--------------------------------------------|
| Physical State               | Solid                                      |
| Appearance                   | powder                                     |
| Odor                         | No information available                   |
| pH                           | No information available                   |
| Melting point/freezing point | 152.2 °C                                   |
| Boiling point                | 350 °C                                     |
| Flash point                  | 215 °C                                     |
| Density                      | 1.1 g/cm3                                  |
| Evaporation rate             | No information available                   |
| Upper flammability limits    | No information available                   |
| Lower flammability limit     | No information available                   |
| Vapor pressure               | No information available                   |
| Vapor density                | No information available                   |
| Specific gravity             | 1.18                                       |
| Water solubility             | No information available                   |
| Solubility in other solvents | No information available                   |
| Partition coefficient        | 6.51                                       |
| Autoignition temperature     | No information available                   |
| Decomposition temperature    | No information available                   |
| Kinematic viscosity          | No information available                   |
| Explosive properties         | No information available                   |
| Oxidizing properties         | No information available                   |
| Solubility                   | Chloroform (Slightly), Methanol (Slightly) |
| Colour                       | White to Off-White                         |

## SECTION 10: Stability and reactivity

### Reactivity

Not applicable

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

No information available.

### Conditions to avoid

Extremes of temperature and direct sunlight.

## **Incompatible materials**

Strong oxidizing agents.

## **Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

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# **SECTION 11: Toxicological information**

## **Information on likely routes of exposure**

### **Inhalation**

Classified based on available data. For more details, see section 2.

### **Eye contact**

Classified based on available data. For more details, see section 2.

### **Skin Contact**

Classified based on available data. For more details, see section 2.

### **Ingestion**

Classified based on available data. For more details, see section 2.

## **Information on toxicological effects**

### **Symptoms**

Classified based on available data. For more details, see section 2.

## **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

### **Chronic Toxicity**

Classified based on available data. For more details, see section 2.

## **Numerical measures of toxicity - Product Information**

### **Unknown acute toxicity**

Classified based on available data. For more details, see section 2

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# **SECTION 12: Ecological information**

## **Ecotoxicity**

May cause long lasting harmful effects to aquatic life

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

## **Persistence and degradability**

No information available.

## **Bioaccumulation**

No information available.

## **Mobility**

No information available.

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## SECTION 13: Disposal considerations

### Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated packaging

Do not reuse container.

### Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

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## SECTION 14: Transport information

### DOT

Not regulated

### IMDG

Not regulated

### IATA

Not regulated

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## SECTION 15: Regulatory information

### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC)

ENCS (Japan): Philippines (PICCS)

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

| Chemical name                                | TSCA | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------------------------------|------|-----|------|--------|--------|------|-------|------|-------|------|
| 2-Benzotriazole-2-yl-4,6-di-tert-butylphenol | X    | X   | -    | X      | -      | X    | X     | X    | X     | X    |

### US Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## **SARA 311/312 Hazard Categories**

### **Acute health hazard**

No

### **Chronic Health Hazard**

Yes

### **Fire hazard**

No

### **Sudden release of pressure hazard**

No

### **Reactive hazard**

No

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

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## **SECTION 16: Other information**

### **Abbreviations and acronyms**

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.