

# Safety Data Sheet

## Light Stabilizer UV3853

### *Section 1 - Product and Company Information*

|  |   |
|--|---|
| <b>Product Name</b>  | Light Stabilizer UV3853   |
| <b>Brand</b>   | Baoxu Chemical  |
| <b>Synonym</b>   | UV-3853; CYASORB UV-3853;<br>2,2,6,6-Tetramethyl-4-piperidinyl stearate   |
| <b>Chemical Formula</b>  | C <sub>27</sub> H <sub>53</sub> NO <sub>2</sub>   |
| <b>Recommended use of the chemical and restrictions on use</b> | Mainly used as an additive of light stabilizing for polyolefin plastic, polyurethanes, ABS resins, painting, adhesives, rubber etc. |
| <b>Manufacturer</b>  | Dongguan Baoxu Chemical Technology Ltd  |
| <b>Address</b>   | Caijing Business Bldg Dongguan China  |
| <b>Zip</b>   | 523000  |
| <b>International Sales</b>                                     |   |
| <b>Tel</b>   | 0086-769-22821082;  |
| <b>Fax</b>   | 0086-769-22821083   |
| <b>Order Online</b>  | info@baoxuchem.com  |

### *Section 2- Hazards Identification*

#### Classification of the substance

Classification according to Regulation (EC) No.1272/2008[CLP/GHS]

Skin Sens.1, H317

Eye Dam.1, H318

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

#### **pictogram**



**Signal word:** Danger

**Hazard statements** This substance is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects, causes serious eye damage and may cause an allergic skin reaction.

### *Section 3 - Composition/Information on Ingredient*

#### **Composition:**

| Name                                       | CAS NO.     | % by Weight | Type |
|--|-------------|-------------|------|
| 2,2,6,6-Tetramethyl-4-piperidinyl stearate | 167078-06-0 | 100         | A    |
|  | 86403-32-9  |             |      |

A: constituent    B: impurity    C: stabilizing additive

## ***Section 4 - First Aid Measures***

**Eye Contact** Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention immediately.

**Skin Contact** Immediately wash skin with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering.

**Inhalation** If inhaled, remove to fresh air.

**Ingestion** If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

## ***Section 5 - Fire Fighting Measures***

**Suitable extinguishing media:** Water spray, carbon dioxide, dry chemical powder.

**Specific hazards:** Emits toxic fumes under fire conditions.

**Special fire fighting procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

## ***Section 6 - Accidental Release Measures***

### **Methods for cleaning up**

Sweep up and shove into containers for disposal. Flush spill area with water.

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with eyes, skin.

### **Environmental precautions**

This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment.

## ***Section 7 - Handling and Storage***

**Precautions for safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation, contact with eyes, skin and clothing.

**Storage** Store in cool, dry and well-ventilated place. Keep container tightly closed.

## ***Section 8 - Exposure Controls / PPE***

### **Exposure controls**

#### **Appropriate engineering controls**

This material is not used in a closed system, overall and local exhaust ventilation should be provided to control exposure. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or 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.

## ***Section 9 - Physical/Chemical Properties***

**Appearance:** Waxy solid.

**Molecular Weight:** 423.72g/mol

**Color:** yellow

**Odor:** odorless

**Boiling point:** 400°C/752°F

**Melting point:** 28~32 °C/82~89°F

**Specific Gravity/Density:** 0.895 at 20 °C

**Vapor Pressure:** 0.051Pa at 25 °C

**Vapor Density:** No data available

**Percent Volatile (% by wt.):** No data available

**pH:** Not applicable

**Saturation In Air (% By Vol.):** No data available

**Evaporation Rate:** Not applicable

**Solubility In Water:** Insoluble

**Volatile Organic Content:** <5mg/L

**Flash Point:** 140°C/ 284°F (Closed Cup)

**Flammable Limits (% By Vol):** Not applicable

**Autoignition Temperature:** 350°C/ 662°F

**Decomposition Temperature:** No data available

**Partition coefficient (n-octanol/water):** 8.92

## ***Section 10 - Stability and Reactivity***

**Chemical Stability:** Stable under the storage conditions.

**Reactivity** No information available

**Polymerization** Will not occur

**Conditions to avoid** Extremes of temperature, heat, flames, sparks and direct sunlight.

**Incompatible materials** No specific incompatibility.

**Hazardous Decomposition Products** Carbon oxides, oxides of nitrogen.

## ***Section 11 - Toxicological Information***

**Information on toxicological effects**

**The product possess very low oral and low dermal and inhalation acute toxicity.**

**Acute toxicity**

LD50 Oral - Rat: > 10g/kg

LD50 Dermal - Ra: > 5g/kg)

LC50 Inhalation - Rat: >5mg/l - 7 h.

**Skin contact:** Cause an allergic skin reaction.

**Eye contact:** Cause serious eye damage

**Mutagenicity could not be completely excluded. Teratogenic effects cannot be excluded.**

**A repeat dose oral study in rats revealed mucosal hyperplasia of the duodenum. On this basis, a NOAEL of**

40mg/kg/day was established.

## ***Section 12 - Ecological Information***

**This substance is very toxic to aquatic life, is very toxic to aquatic life with long lasting effects.**

### **Algae Test Results**

**Test:** Growth Inhibition (OECD 201)

**Duration:** 0 ~72 hr.

**Species:** Green Algae (*Selenastrum capricornutum*)

EbC50>0.013 mg/l Complete inhibition of growth and growth rate observed

ErC50 >0.013 mg/l Complete inhibition of growth and growth rate observed

EbC50>495 ug/l Maximum obtainable test concentrations due to limited water solubility

### **Fish Test Results**

**Test:** Acute toxicity, freshwater (OECD 203)

**Duration:** 96 hr.

**Species:** Rainbow Trout (*Oncorhynchus mykiss*)

LC50>0.80 mg/l

### **Invertebrate Test Results**

**Test:** Acute Immobilization (OECD 202)

**Duration:** 48 hr.

**Species:** Water Flea (*Daphnia magna*)

EC50: ~0.11 mg/l

### **Degradation**

**Test:** Modified MITI (OECD 301C)

Duration: 28 day

BOD 100% Degradation is 100% back to starting materials.

## ***Section 13 - Disposal Considerations***

**Waste Disposal** Waste must be disposed of in accordance with federal, state and local environmental control regulations. And offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging is disposed as unused product.

## ***Section 14 - Transport Information***

**Shipping Name:** Environmentally hazardous substance, solid, n.o.s.

**Hazard Class:** 9

**UN Number:** 3077

**Packing Group:** III

## ***Section 15 - Regulatory Information***

**Classification according to Regulation (EC) No.1272/2008[CLP/GHS]**

May cause an allergic skin reaction, H317.

Causes serious eye damage, H318

Very toxic to aquatic life, H400

Very toxic to aquatic life with long lasting effects, H410

**U.S. Regulatory Information**

**TSCA listings:** Fatty acids, C12-21 and C18-unsatd., 2,2,6,6-tetramethyl-4-piperidiny l esters is listed on the TSCA Inventory.

## ***Section 16 - Other Information***

**Full text of abbreviated**

**NOAEL:** No Observed Adverse Effect Level

**Full text of abbreviated H**

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**Full text of classifications[CLP/GHS]**

Skin Sens.1, H317: Skin Sensitisation, category 1

Eye Dam.1, H318: Serious Eye Damage / Eye Irritation, category 1

Aquatic Acute 1, H400: Hazardous to the aquatic environment - acute, category 1

Aquatic Chronic 1, H410: Hazardous to the aquatic environment – chronic, category 1

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**WARRANTY**

The above information 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. It does not represent any guarantee of the properties of the product. information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. **Date of issue 16 May 2018.**

-----**ENDS OF SDS**-----