SAFETY DATA SHEET

Light Stabilizer 292

SUQIAN UNITECHEM CO., LTD

· According to GHS (Ninth Revised Edition)

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name	Light Stabilizer 292
Synonyms	-
CAS No.	41556-26-7; 82919-37-7
EC No.	-
Molecular Formula	-

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

Relevant Identified Uses	Stabilizer

> 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:

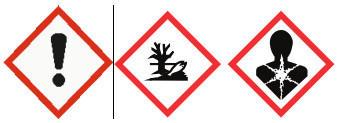
> GHS Hazard Class

Acute toxicity: Cat.5(oral)
Shin sensitization: Cat. 1A
Hazardous to the aquatic environment - acute: Cat. 1
Hazardous to the aquatic environment - chronic: Cat. 1

Reproductive toxicity: Category 2

> GHS Label Elements

Pictogram



Signal Word Warning

> Hazard Statements

H303	May be harmful if swallowed.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

> Precautionary Statements

Prevention

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.
P280	Wear protective gloves.
P273	Avoid release to the environment.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace

Response

P308+P313	IF exposed or concerned: Call a POISON CENTER/doctor/...
P333+P311	If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P303+P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P391	Collect spillage.
P362+P364	Take off contaminated clothing and wash it before reuse.

Disposal

P501	Dispose of contents/container to hazardous or special waste collection point.

> Other Hazards

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	75-85	41556-26-7	-
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	15-25	82919-37-7	-

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediately remove contaminated clothing.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Skin Contact	Wash thoroughly with soap and water.
Ingestion	Rinse mouth immediately and then drink plenty of water, seek medical attention.
Inhalation	Keep patient calm, remove to fresh air, seek medical attention.

> 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 section 11.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

No information applicable

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media	water spray, dry powder, foam
Unsuitable extinguishing media	water jet

> 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.

> Further information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective clothing. Breathing protection required.

> Environmental Precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

> Methods and Materials for Containment and Cleaning Up

For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

Section 7 Handling and Storage

> Precautions for Handling

No special measures necessary provided product is used correctly.
Protection against fire and explosion:
Take precautionary measures against static discharges.

> Precautions for Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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/Face Protection	Safety glasses with side-shields.
Respiratory protection	Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)
Hand Protection	Chemical resistant protective gloves Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness
Body Protection	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
Control of environmental exposure	Prevent further leakage or spillage if sate to do so. Do not let product enter drains. Discharge into the environmental must be avoided.

Section 9 Physical and Chemical Properties

Appearance: Colorless to light yellow transparent liquid

Odor Threshold: No information available

Melting Point/Freezing Point(℃) : No information available

Flash Point(℃) (Closed Cup): 209.5

Flammability: No information available

Odor: ester-like

pH: No information available

Initial Boiling Point and Boiling Range(℃): > 300

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: For liquids not relevant for classification and labelling.; Lower limit: For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15°C below the flash point.

Vapor Pressure: 0.000001 hPa at 20℃

Relative Density (Water=1): 0,993 g/cm^3 at 25℃

n-Octanol/Water partition Coefficient: No information available

Decomposition Temperature(℃): No information available

Particle characteristics: No information available

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

Solubility in water: completely miscible

Auto-Ignition Temperature(℃): Based on its structural properties the product is not classified as auto-igniting.

Kinematic Viscosity(mm2/s): No information available

Section 10 Stability and Reactivity

Reactivity	No information available
Chemical Stability	No information available
Possibility of Hazardous Reactions	No information Available
Conditions to Avoid	Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.
Incompatible Materials	No information Available
Hazardous Decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11 Toxicological Information

> Acute Toxicity

LD50 rat (oral): 3,230 mg/kg (Conventional method)

> Skin Corrosion/Irritation

Skin corrosion/irritation rabbit: non-irritant (OPP 81-5 (EPA-Guideline))

> Serious Eye Damage/Irritation

Non-irritant

> Respiratory Sensitization

Guinea pig: skin sensitizing (OECD Guideline 406)

> Germ Cell Mutagenicity

Ames-test negative

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	Not listed	Not Listed
2	82919-37-7	Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Not listed	Not Listed

> Reproductive Toxicity

Based on the ingredients, there is no suspicion of a toxic effect on reproduction.

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

> STOT-Repeated Exposure

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

> Aspiration Hazard

No aspiration hazard expected.

Section 12 Ecological Information

> Toxicity

Assessment of aquatic toxicity:
Very toxic (acute effect) to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Toxicity to fish:
LC50 (96 h) 0.97 mg/l, Lepomis macrochirus (OECD Guideline 203)
LC50 (96 h) 7.9 mg/l, Oncorhynchus mykiss (OECD Guideline 203)
LC50 (96 h) 0.9 mg/l, Brachydanio rerio (OECD Guideline 203, semistatic)
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.
Aquatic invertebrates:
EC50 (24 h) 20 mg/l, Daphnia magna (OECD Guideline 202, part 1)
Aquatic plants:
EC50 (72 h) 1.68 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.
Microorganisms/Effect on activated sludge:
EC50 (3 h) > 100 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)
Chronic toxicity to aquatic invertebrates:
No observed effect concentration (21 d), 1 mg/l, Daphnia magna (OECD Guideline 211, semistatic)
The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

> Others

Persistence and Degradability	Elimination information: 38 % DOC reduction (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, aerobic microorganisms) Assessment of stability in water:

Bioaccumulative potential	In contact with water the substance will hydrolyse slowly. Assessment bioaccumulation potential: Accumulation in organisms is not to be expected.
Additional information	Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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

UN Number	3082
UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport Hazard Class	9
Transport Subsidiary Hazard Class	None
Packing Group	III
Marine pollutant	yes

Section 15 Regulatory information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Light Stabilizer 292	√	√	√	√	√	√	√	√	√

【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	2022/6/21
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.