

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH)  
COMMISSION REGULATION (EU) 2015/830

Version 1  
Product Name Hindered Amine Light stabilizer 292;UV 292;UV STABILIZER 292

Issue Date 24-JAN-2018  
Revision date 24-JAN-2018

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

### 1.1. Product identifier

Product Name Hindered Amine Light stabilizer 292,UV 292,UV stabilizer 292,  
Chemical Name Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl  
1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
CAS No 41556-26-7,82919-37-7  
EC No 915-687-0  
REACH registration number 01-2119491304-40-\*\*\*\*  
SDS Number

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

Recommended Use **Stabilizer, polyurethane component**  
Uses advised against The product has not been tested and is therefore not recommended to be used in contact with mucous membranes, abraded skin, or blood; or for the manufacture of implants for the human body

### 1.3. Details of the supplier of the safety data sheet

Supplier Suqian Unitechem Co., Ltd.  
Address Nanhua Road, North District, Economic Development, Suqian City, Jiangsu Province  
Postal Code 223800  
Phone +86-527-84836111  
FAX +86-527-84829777  
E-mail Wm@china944.com

Importer  
Address  
Postal Code  
Phone  
FAX  
E-mail

### 1.4. Emergency telephone number

+86-527-84836111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Skin Sens.1A - (H317)  
Acute aquatic toxicity Category 1 - (H400)  
Chronic aquatic toxicity Category 1 - (H410)

### 2.2. Label elements

Symbols/Pictograms



Signal word

Warning

Hazard Statements

H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P333 + P311 - If skin irritation or rash occurs: call a poison center or doctor.

P303 + P353 - 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.

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

EU Specific Hazard StatementsNone.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sterically Hindered Amine Light stabilizer	915-687-0	41556-26-7, 82919-37-7	97%	H317 H400 H410

**SECTION 4: First aid measures****4.1. Description of first aid measures****General advice**

Immediately remove contaminated clothing

**IF Inhaled:**

Keep patient calm,remove to fresh air,seek medical attention.

**On Skin Contact**

Wash off immediately with soap and plenty of water

**ON contact with EYES:**

Rinse cautiously with water for 15l minutes at least. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling(see section 2) and in section11.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically, no known specific antidote.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray, dry powder, foam

**Unsuitable extinguishing media**

Water Jet

**5.2. Special 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.

**5.3. Advice for firefighters**

Special protective equipment:

Wear a self-contained breathing apparatus.

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 measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Breathing protection required

**6.2. Environmental precautions**

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

**6.3. Methods and material 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

**6.4. Reference to other sections**

See section 8 for more information

See section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No special measures necessary provided products is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities**

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

The packed product is not damaged by low temperature or by frost.

**7.3. Specific end use(s)**

See exposure scenarios in the attachment to this safety data sheet

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No data available.

**Derived No Effect Level (DNEL)**

	Route	Type of effect	DNEL
For the worker	Inhalation	Systemic effects - Long-term	3.53 mg/m <sup>3</sup>
	Dermal	Systemic effects - Long-term	2.0 mg/kg bw/day
For the general population	Inhalation	Systemic effects - Long-term	0.87 mg/m <sup>3</sup>
	Dermal	Systemic effects - Long-term	1.00 mg/kg bw/day
	Oral	Systemic effects - Long-term	0.50 mg/kg bw/day

**Predicted No Effect Concentration (PNEC)**

Compartment	PNEC
<b>Water</b>	Freshwater: 0.0022 mg/L
	Marine water: 0.00022 mg/L
	Intermittent releases: 0.009 mg/L
<b>Sediment</b>	Freshwater: 1.05 mg/kg sediment dw
	Marine water: 0.11 mg/kg sediment dw
<b>STP</b>	1 mg/kg
<b>Soil</b>	0.21 mg/kg soil dw

**8.2. Exposure controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.

**Personal protective equipment**

Eye/face protection	Safety glasses with side-shields(frame goggles) (e.g.EN 166)
Hand Protection	Chemical resistant protective gloves(EN374),Nitrile rubber-0.4mm coating thickness.
Skin and body protection	Body protection must be chosen depending on activity and possible exposure, eg apron,protecting boots,chemical-protection suit(according to EN 14605 in case of splashes or EN ISO 13982 in case of dust)
Respiratory protection	Suitable respiratory protection for higher concentrations or long term effect:Gas filter for gases/vapours of organic compounds(Boiling points>65 °C E.g EN14387 Type A).

**Environmental exposure controls**

Do not allow into any sewer, on the ground or into any body of water.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Light Yellow
<b>Odor</b>	Ester-like
<b>Odor Threshold</b>	Not determined
<b>pH</b>	8.4 (water, 1%(m), 20-25 °C)
<b>Boiling point / boiling range</b>	>300°C
<b>Flash point</b>	209.5°C
<b>Evaporation rate</b>	Value can be approximated from henry's law constant or vapor pressure.
<b>Flammability (solid, gas)</b>	Not flammable
<b>Flammability Limit in Air</b>	Not applicable
<b>Vapor Pressure</b>	0.00001 hPa (20 °C)

<b>Vapor density</b>		Not applicable
<b>Density</b>	0.993 g/cm <sup>3</sup> (20 °C)	
<b>Relative density</b>	Not determined	
<b>Bulk density</b>	Not determined	
<b>Specific gravity</b>	Not determined	
<b>Water solubility</b>	21.5-29.8mg/L (21 °C)	
<b>Partition coefficient (LogPow)</b>	2.37-2.77 (25 °C, pH = 7)	
<b>Autoignition temperature</b>	Not applicable	
<b>Decomposition temperature</b>	325°C	
<b>Kinematic viscosity</b>	478,2/s(20°C)	
<b>Dynamic viscosity</b>	400mPa.s(20°C)	
<b>Explosive properties</b>	Not an explosive	
<b>Oxidizing properties</b>	Not determined	

**9.2. Other information**  
 No information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

**10.2. Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when stored and handled according to instruction.

**10.4. Conditions to avoid**

Avoid all sources of ignition:heat,sparks,open flame,Avoid electro-static discharge.

**10.5. Incompatible materials**

Strong acid,strong bases,strong oxidizing agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products if stored and handled as prescribed/indicated.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	3230mg/kg	/	/

**Skin corrosion/irritation**

Non-irritant(OPP 81-5(EPA-Guideline))

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Sensitization**

No sensitization responses were observed.

**Germ cell mutagenicity**

Negative.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Microorganisms EC50
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1.68 mg/L :72h	0.97 mg/L:96h Lepomis macrochirus.	>100 mg/L :3h.

**12.2. Persistence and degradability**

In contact with water the substance will hydrolyse slowly.

**12.3. Bioaccumulative potential**

Accumulation in organisms is not to be expected.

**12.4. 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.

**12.5. Results of PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**12.6. Other adverse effects**

The product does not contain substances that are listed in Annex I of regulation(EC) 2037/2000 on substances that deplete the ozone layer.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Waste key

07 02 08 other still bottoms and reaction residues.

Contaminated packaging

Uncontaminated packaging can be re-used. Packages that cannot be cleaned should be disposed of in the same manner as the contents.

**SECTION 14: Transport information**

- 14.1. UN number** 3082
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate)
- 14.3. Transport hazard class(es)** 9,EHSM
- 14.4. Packing group** III
- 14.5. Environmental hazards** Marine pollutant(Yes)
- 14.6. Special precautions for user** No information available
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	X	-	-

**15.2. Chemical safety assessment**

Chemical safety assessment performed.

**SECTION 16: Other information**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 24-JAN-2018  
**Revision date** 24-JAN-2018  
**Revision Note** Not applicable

**Key or legend to abbreviations and acronyms used in the safety data sheet**

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

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

AICS - Australian Inventory of Chemical Substances

**Key literature references and sources for data**

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

**Full text of H-Statements referred to under section 3**

H317 - May cause an allergic skin reaction.

H400 - Very toxic to aquatic life

H410 - Toxic to aquatic life with long lasting effects

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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