SAFETY DATA SHEET

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

Version 1 **Issue Date** 11-Jun-2016
Product Name Hindered Amine Light stabilizer 770;UV 770;UV STABILIZER 770 **Revision date** 11-Jun-2016

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

1.1. Product identifier

Product Name	Hindered Amine Light stabilizer 770,UV 770,UV stabilizer 770,
Chemical Name	Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate
CAS No	52829-07-9
EC No	258-207-9
REACH registration number	No information available
SDS Number	2612020058

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

Recommended Use	
Uses advised against	No information available

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	eye@china944.com

Importer	
Address	
Postal Code	
Phone	
FAX	
E-mail	

1.4. Emergency telephone number

+86-527-84836111

SECTION 2: Hazards identification

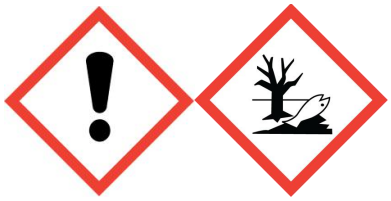
2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation Category 1 - (H318)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 2 - (H411)

2.2. Label elements

Symbols/Pictograms



Signal word Danger

Hazard Statements	H318 - Causes serious eye damage H400 - Very toxic to aquatic life H411 - 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 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P391 - Collect spillage P501 - Dispose of contents/ container to an approved waste disposal plant
EU Specific Hazard Statements	None.

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]
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	258-207-9	52829-07-9	>=98.5	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice
Do not get in eyes, on skin, or on clothing. Do not breathe dust. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. 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
Causes serious eye damage.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO_2).
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, nitrogen oxides.

5.3. Advice for firefighters

Evacuate personnel to safe areas. Move containers from fire area if you can do it without risk. Cool drums with water spray. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Stay upwind. Ensure adequate ventilation, especially in confined areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with eyes. Avoid creating dust. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid generation of dust.

6.4. Reference to other sections

See Section 7 for more information
See section 8 for more information
See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with eyes. Avoid generation of dust. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

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	2.82 mg/m³
	Inhalation	Systemic effects - Short-term	2.82 mg/m³
	Dermal	Systemic effects - Long-term	1.6 mg/kg bw/day
For the general population	Inhalation	Systemic effects - Long-term	690 µg/m³
	Dermal	Systemic effects - Long-term	800 µg/kg bw/day
	Oral	Systemic effects - Long-term	400 µg/kg bw/day

Predicted No Effect Concentration (PNEC)

Compartment	PNEC
Water	Freshwater: 18.8 µg/L
	Marine water: 1.88 µg/L
	Intermittent releases: 7 µg/L
Sediment	Freshwater: 29 mg/kg sediment dw
	Marine water: 2.9 mg/kg sediment dw
STP	1 mg/kg
Soil	5.9 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	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

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

Appearance	Little granule poeder
Color	White
Odor	Weak odor
Odor Threshold	Not determined
pH	9.8 (25 °C, 50.0 g/L)
Melting point/freezing point	82.6 - 82.8 °C
Boiling point / boiling range	Not determined
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not applicable
Vapor Pressure	0 - 0.013 Pa (20 - 100 °C)
Vapor density	Not applicable
Density	1.05 g/cm³ (20 °C)
Relative density	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Water solubility	18.8 mg/L (23 °C, pH = 7.5)
Partition coefficient (LogPow)	0.35 (25 °C, pH = 7)
Autoignition temperature	Not applicable
Decomposition temperature	Not determined

Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat, flames and sparks. Incompatible materials.

10.5. Incompatible materials
Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products
Carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate (CAS #: 52829-07-9)	3700 mg/kg bw (Rat)	3170 mg/kg bw (Rat)	500 mg/m^3 (Rat) 4h

Skin corrosion/irritation
May cause skin irritation in susceptible persons.

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	Crustacea EC50
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate (CAS #: 52829-07-9)	705 - 1900 mg/L :72h	4.4 mg/L:96h	8.58 mg/L :48h Daphnia magna

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
Log Pow = 0.35 (25 °C, pH = 7).
Log Koc = 2.89 - 4.2 @ 1.3 - 9.3 % organic carbo

12.4. Mobility in soil
No information available.

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
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate)
14.3. Transport hazard class(es)	9
14.4. Packing group	III

14.5. Environmental hazards Marine pollutant

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(2,2,6,6-tetramethyl-4-piperidinyl) sebacate 52829-07-9 (>=98.5)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate 52829-07-9 (>=98.5)	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

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

Issue Date 11-Jun-2016
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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
HSDB: http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

Full text of H-Statements referred to under section 3
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life
H411 - 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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