

1. Identification of the substance or mixture

Trade name: Chiguard® 5530

Recommended use: A UV absorber for polymers

Company:

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2. Hazards identification

Emergency overview:

Flammability: Combustible liquid

Health: Skin sensitizer

Environmental: Toxic to aquatic organisms

Precautionary statements:

Combustible liquid, keep away from heat, sparks and flames.

Dangerous to the environment. Don't allow it to enter a body of water.

Toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

Skin sensitizer, avoid skin contact

Primary route of entry: Dermal

Inhalation: Inhalation exposure of Chiguard® 5530 is unlikely because of its low volatility.

Swallowing: Avoid swallowing

Skin: Not irritant but will cause allergic skin reactions

Eye: Not irritant

Classification system:

HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

Health (acute effects) = 2

Flammability = 1

Reactivity = 0

3. Composition/information on ingredients

Chemical characterization

Mixture of

Alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene

Substance / Product identification

Index No. : 607-176-00-3

EC No.: 400-830-7

4. First aid measures

If inhaled:

Remove to fresh air and summon medical help if respiratory irritation develops or if breathing becomes difficult.

On skin contact:

Wipe away excess material with dry towel and then wash affected areas with plenty of water for several minutes. Get medical attention immediately if irritation occurs.

On contact with eyes:

Immediately wash affected eyes for several minutes under running water with eyelids held open. Get medical attention immediately if irritation occurs.

If swallowed:

Wash out mouth with water and then drink plenty of water, and summon physician. Do not give anything by mouth to an unconscious or convulsing person.

5. Fire fighting measures

Flash point : 114 °C (237 °F)

Extinguishing media : Carbon dioxide, foam, dry chemical, water spray.

Fire fighting instructions : Use self-contained breathing apparatus.

6. Accidental release measures

Wear appropriate personal protective equipment, including appropriate respiratory protection to ventilate contaminated area. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

7. Handling and storage

Handling precautions:

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Use only with adequate ventilation.

Keep away from heat, sparks and flames.

Shipping and storing precautions:

Keep container tightly closed when not in use and during transport.

Personal hygiene:

Wash thoroughly after handling.

8. Exposure controls and personal protection

Occupational exposure limit: Not available

Biological limit: Not available

Protective equipment:

Eye/ face protection : Chemical type goggle should be worn.

Skin protection : Glove and lab coat must be worn when handling.

Respiratory protection : Local exhaust must be worn.

9. Physical and chemical properties

Appearance	: Yellow to light amber liquid
Odor	: Odorless
Boiling point	: 166 °C @0.8 mmHg
Melting point	: -40 °C
Solubility in water	: 7.7 mg/l @20 °C
Specific gravity	: 1.17 @ 20 °C

10. Stability and reactivity

Chemical stability: Stable

Incompatibilities: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition and burning will produce toxic fume, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

11. Toxicological information

Toxicity data:

ORL-RAT LD ₅₀	: >2000 mg/kg
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Irritation data:

EYE-RBT	: Not-irritant
SKN-RBT	: Not-irritant

Sensitization data:

SKIN (Guinea Pigs)	: Sensitizing
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Mutagenicity:

AMES test	: No mutagenic effect
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12. Ecological information

Toxicity data:

To fish LC ₅₀ (Fish general)	: 2.8 mg/l
To daphnia EC ₅₀ (Daphnia)	: 3.8 mg/l
To algae EC ₅₀ (Algae)	: > 9 mg/l

13. Disposal considerations

Waste disposal method:

Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Follow all federal, state and local regulations.

14. Transport information

UN number: 3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S.

Technical shipping name: Mix ture of

Alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Transport hazard class: 9

Packaging group: III

Marine pollutant mark: Symbol "fish and tree"

DOT proper shipping name:

Not regulated as a hazardous material by the U.S. dept. of transportation (DOT) 49 CFR 172.101 HAZADOUS MATERIAL TABLE.

DOT class : None.

DOT number : None.

HMIS Rating: Health: 2 Flammability: 1 Reactivity: 0 Protective Equipment: B

NFPA Rating: Health: 2 Flammability: 1 Reactivity: 0 Special: -

Non-hazardous for transport: This substance is considered to be non-hazardous for transport.

ITIA : Non-hazardous for air transport

15. Regulatory information

Chiguard® 5530 is listed on the following inventories:

Australia: AICS

Canada: DSL

China: ENCS

Europe: REACH

Japan: MITI

Korea: ECL

Philippines: PICCS

USA: TSCA

Risk Phrases:

R43-May cause sensitization by skin contact.

R51/53-Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S2-Keep out of the reach of children.

S36/37-Wear suitable protective clothing and gloves.

S61-Avoid release to the environment. Refer to special instructions/Safety data sheets.

RCRA status: Not a hazardous waste under RCRA (40 CFR 261).

CERCLA status: Not listed.

SARA/TITLE III - TOXIC CHEMICALS LIST:

This product does not contain a toxic chemical for routine annual toxic chemical release reporting under sec. 313 (40 CFR 372).

16. Other information

Shelf life: 2 years minimum in sealed containers protected from light and air.

Suggested uses: An excellent UV absorber for polymers, especially liquid systems.

The information and recommendations contained herein are based upon data believed to be correct. However, no guaranty or warranty of any kind expressed or implied is made with respect to the information contained here.