

May not comply with national legislation; shall be used only as a source of information.

TINUVIN 1130 Revision 31.01.2003

1. Identification of the Substance/Preparation and the Company/Undertaking

Product name **TINUVIN 1130**

Chemical identification Mix of:a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-o-

hydroxypoly(oxyethylene);a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4hydroxyphenyl)propionyl-o-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-

hydroxyphenyl)propionyloxypoly(oxyethylene)

CAS Number

Stabiliser Use

CIBA SPEZIALITÄTENCHEMIE AG Producer/Supplier

KLYBECKSTRASSE 141

POSTFACH 4002 BASEL **SWITZERLAND**

Phone Number +41 (61) 6361111 Telefax +41 (61) 6361212

Information Product Safety and Regulatory Affairs

Telefax +41 (61) 6368601

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2. Composition/Information on Ingredients

Substances presenting a health or environmental hazard

CAS Number Chemical Name Content R-Phrase(s) **EC-Number** Symbol(s) Xi - N R43 - R51/53

400-830-7 Mix of:a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4- 100 %

hydroxyphenyl)propionyl-ohydroxypoly(oxyethylene);a-3-(3-(2Hbenzotriazol-2-yl)-5-t-butyl-4hydroxyphenyl)propionyl-o-3-(3-(2Hbenzotriazol-2-yl)-5-tert-butyl-4-

hydroxyphenyl)propionyloxypoly(oxyethylene)

3. Hazards Identification

Classified as hazardous according the EU directives.

Xi Irritant

N Dangerous for the environment

May cause sensitization by skin contact.

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

4. First Aid Measures

Skin contact

Wipe with absorbent paper or textile towels. Wash off with soap and plenty of water. Do not use organic solvents. In case of dermatitis, seek medical attention.

Eve contact

Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.

Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. If affected person feels unwell, seek medical advice. In case of prolonged exposure, seek medical attention.

Ingestion

Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be



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TINUVIN 1130 Revision 31.01.2003

(dd.mm.yyyy

restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice.

5. Fire-Fighting Measures

Suitable extinguishing media

Water spray, Foam, Carbon dioxide (CO2), Dry powder

Extinguishing media which must not be used for safety reasons

High volume water jet

Exposure hazards

Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

Special protective equipment for firefighters

Wear full protective clothing. Wear self-contained breathing apparatus.

Combustion products

Oxides of carbon; Oxides of nitrogen (NOx); Toxic gases/vapours

6. Accidental Release Measures

Personal precautions

Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not flush into surface water, sanitary sewer or ground water system.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled.

7. Handling and Storage

Handling

Handle and open container with care. Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.

Storage

Keep away from food and drink. Store in the original container securely closed. This product can form an ignitable vapour/air mixture. Take precautionary measures against static discharges, e.g. by using proper earthing techniques.

8. Exposure Controls / Personal Protection

Exposure limit(s)

CIEL-TWA Ciba internal exposure limit (8 hour time weighted average)

1.0 mg/m3

Skin sensitising in animal study

Technical measures/Precautions

Exposure limit(s) should be monitored using suitable analytical equipments.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

Protective gloves

Eye protection

Suitable goggles or face protection

Skin and body protection

Working clothes, Closed footwear



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DIN 51794

(dd.mm.yyyy)

9. Physical and Chemical Proper	erties
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Form liquid Form viscous

Colour yellow to light brown

OdourodourlessMelting/freezing temperature-40 °CBoiling point/range 0.011 kPa166 °C

Boiling point/range 0.011 kPa166 °COECD 104Relative density 20 °C1.17 g/cm3EEC A 3Flash point114 °CDIN 51758

Flammability not tested Ignition Temperature 405 °C

Oxidising properties not applicable Self-ignition temperature not tested

Water solubility 20 °C 7.7 mg/l EEC A 6

Solubility not tested

Partition coefficient; Log Pow < -1.3 OECD 107

pH-value 1 % suspension in water 20 - 25 ca 6.5

°C

Dynamic Viscosity 20 °C 7400 mPa.s **Explosive properties** not explosive EEC A 14

Evaporation rate not tested Vapour density not tested

10. Stability and Reactivity

Decomposition temperature > 250 °C

Conditions to avoid Static discharges.

Materials to avoid Strong acids, strong bases and

strong oxidising agents.
Oxides of carbon, Oxides of

Hazardous decomposition products

Oxides of carbon, Oxides of nitrogen (NOx), Toxic

gases/vapours

11. Toxicological Information

Acute oral toxicity LD50 > 2000 mg/kg OECD 401

Rat

Acute dermal toxicity LD50 > 2000 mg/kg OECD 402

Rat

Acute Inhalation Toxicity LC50 > 5800 mg/m3 OECD 403

Rat 14 d

Acute eye irritation/corrosion not irritant OECD 405

Rabbit

Acute dermal not irritant OECD 404

irritation/corrosion

Rabbit

Acute skin sensitisation sensitising OECD 406

Guinea pig



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12. Ecological Information

Acute toxicity to fish LC50 2.8 mg/l OECD 203

Fish general (Pisces)

Acute toxicity to daphnia EC50 3.8 mg/l OECD 202

Daphnia magna

Acute toxicity to bacteria IC50 not tested

Bacteria

Acute toxicity to algae EC50 > 9 mg/l OECD 201

Algae

No effects at the highest tested concentration.

Biodegradability Not biodegradable OECD 301 B

Ecotoxic effects

Do not discharge product uncontrolled into the environment.

13. Disposal Considerations

Waste from residues / unused products

Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation.

Contaminated packaging

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

14. Transport Information

Flash point 114 °C

ADR/RID Class: 9

UN No.: 3082

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

Additional Information: (BENZOTRIAZOLE DERIVATIVE MIXTURE)

IMO Class: 9

UN No.: 3082 Packaging group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S.

Additional Information: (BENZOTRIAZOLE DERIVATIVE MIXTURE)

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15. Regulatory Information

Classification Classification according to EU, Annex 1; EC Label

Symbol(s) Xi Irritant

N Dangerous for the environment

R-Phrase(s) R43 May cause sensitization by skin contact.

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

aquatic environment.

S-Phrase(s) S36/37 Wear suitable protective clothing and gloves.

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

sheets.

Contains Mix of:a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-o-

hydroxypoly(oxyethylene);a-3-(3-(2H-benzotriazol-2-yl)-5-t-butyl-4-hydroxyphenyl)propionyl-o-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-

hydroxyphenyl)propionyloxypoly(oxyethylene)

EC Number 400-830-7

16. Other Information

R-phrases from chapter 2 R43 May cause sensitization by skin contact.

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

aquatic environment.

Essential changes Section 1; Section 2; Section 3; Section 7; Section 9; Section 11; Section 12;

Section 14; Section 15

TINUVIN is a registered trademark.

Important

THIS MATERIAL IS NOT INTENDED FOR USE IN PRODUCTS FOR WHICH PROLONGED CONTACT WITH MUCOUS MEMBRANES, BODY FLUIDS OR ABRADED SKIN, OR IMPLANTATION WITHIN THE HUMAN BODY, IS SPECIFICALLY INTENDED, UNLESS THE FINISHED PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH NATIONALLY AND INTERNATIONALLY APPLICABLE SAFETY TESTING REQUIREMENTS. BECAUSE OF THE WIDE RANGE OF SUCH POTENTIAL USES, CIBA IS NOT ABLE TO RECOMMEND THIS MATERIAL AS SAFE AND EFFECTIVE FOR SUCH USES AND ASSUMES NO LIABILITY FOR SUCH USES.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.