Safety data sheet

1. Substance/preparation and company identification

Tinuvin® 571

Use: stabilizer

Company:
BASF Australia Limited (ABN 62 008 437 867)
Level 12, 28 Freshwater Place Southbank
Victoria 3006, AUSTRALIA
Telephone: +61 3 8855-6600
Telefax number: +61 3 8855-6511

Emergency information:
BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]
BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

2. Hazard identification

DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Avoid release to the environment. Refer to special instructions/safety data sheets.

3. Composition/information on ingredients

Chemical nature

stabilizer
Phenol, 2-(2H-benzotriazol-2-yl)-6-dodecyl-4-methyl-
CAS Number: 23328-53-2

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:
Wash thoroughly with soap and water.

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Rinse mouth and then drink plenty of water.

Note to physician:
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
water jet

Specific hazards:
harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:
Wear a self-contained breathing apparatus.

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.

6. Accidental Release Measures

Personal precautions:
Use personal protective clothing. Breathing protection required.

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

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

7. Handling and Storage

Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:
Take precautionary measures against static discharges.

Storage

Segregate from acids and bases. Segregate from strong oxidizing agents. Segregate from foods and animal feeds.
Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container.

8. Exposure controls and personal protection

Components with workplace control parameters

no exposure standard allocated

Personal protective equipment

Respiratory protection:
Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:
Chemical resistant protective gloves
Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)
butyl rubber (butyl) - 0.7 mm coating thickness
nitrile rubber (NBR) - 0.4 mm coating thickness
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Safety glasses with side-shields.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	yellow	
Odour:	faint odour	
pH value:	5.4 (10 g/l, 20 - 25 °C)	
Melting temperature:	-54 °C	
Boiling point:	174 °C (0.11 hPa)	(OECD Guideline 103)
Flash point:	> 200 °C	(DIN 51758)
Lower explosion limit:	No data available.	
Upper explosion limit:	No data available.	
Ignition temperature:	410 °C	(DIN 51794)
Self ignition:	Temperature: 410 °C	
Vapour pressure:	0.1 hPa (20 °C)	
Density:	1.003 g/cm3 (20 °C)	
Solubility in water:	insoluble < 0.0003 g/l (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Solubility (quantitative) solvent(s):	acetone > 500 g/l (20 °C)	
Partitioning coefficient n-octanol/water (log Pow):	8.9 (20 - 25 °C)	
Viscosity, dynamic:	1,800 - 2,000 mPa.s (20 °C)	

10. Stability and Reactivity

Conditions to avoid:
Avoid electro-static discharge.

Thermal decomposition:	> 350 °C No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions.

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:
Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 401)

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Primary skin irritation rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane rabbit: non-irritant (OECD Guideline 405)

Sensitization

guinea pig: Non-sensitizing. (OECD Guideline 406)

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:
LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203)

Aquatic invertebrates:
EC50 (24 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1)

Aquatic plants:
EC50 (72 h) > 5 mg/l, Scenedesmus sp. (OECD Guideline 201)

No effects at the highest test concentration. Tested above maximum solubility.

Microorganisms/Effect on activated sludge:
EC50 (3 h) > 100 mg/l, activated sludge

Persistence and degradability

Elimination information:
(OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Non-biodegradable.

Additional information

Other ecotoxicological advice:
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.

13. Disposal Considerations

Must be dumped 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.

14. Transport Information

Domestic transport:

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains HYDROXYPHENYL BENZOTRIAZOLE DERIVATIVE)

Further information
Hazchem Code:3Z
IERG Number:47

Sea transport
IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains HYDROXYPHENYL BENZOTRIAZOLE DERIVATIVE)

Air transport
IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains HYDROXYPHENYL BENZOTRIAZOLE DERIVATIVE)

Further information
Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 Kg or 500 L.

15. Regulatory Information

Poisons Schedule: Not scheduled

Regulations of the European union (Labelling)

EC-Number: 401-680-5

EEC Directives:

Hazard symbol(s)	
N	Dangerous for the environment.
R-phrase(s)	
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Other regulations

Registration status:

AICS, AU	released / listed

16. Other Information

Due to the merger of CIBA and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us at the address mentioned in Section I.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.