

SAFETY DATA SHEET

4 hydroxy tempo

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name	4 hydroxy tempo
Synonyms	-
CAS No.	2226-96-2
EC No.	218-761-4
Molecular Formula	C ₉ H ₁₈ NO ₂

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Information

Dongguan Baoxu Chemical Technology.,Ltd.
8th Chenwu East Road, Houjie Town, Donguan City, Guangdong Province, China
P:+86-0769-22821082 Fax:0769-22821083
Email:info@additivesforpolymer.com Web:www.additivesforpolymer.com

> Emergency Phone Number
Emergency Phone
Number
+86-769-22821082

Section 2 Hazards Identification

> Hazard class and label elements of the product according to GHS:

> GHS Hazard Class

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315
Eye Irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), H335

> GHS Label Elements

Pictogram



Signal Word

Warning

> Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

> Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
4-Hydroxy-2,2,6,6-tetramethyl-piperidinoxy	>=99	2226-96-2	218-761-4

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation	If breathed in. move person into fresh air. If not breathing. Give artificial respiration. Consult a physician
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> **Most Important Symptoms and Effects, both Acute and Delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

> **Indication of Any Immediate Medical Attention and Special Treatment Needed**

No data available

Section 5 Fire Fighting Measures

> **Extinguishing Media**

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

> **Specific Hazards Arising from the Substance or Mixture**

Carbon oxides, nitrogen oxides (NOx)

> **Advice for Firefighters**

Wear self-contained breathing apparatus for firefighting If necessary.

Section 6 Accidental Release Measure

> **Personal Precautions, Protective Equipment and Emergency Procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

> **Environmental Precautions**

Do not let product enter drains.

> **Methods and Materials for Containment and Cleaning Up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

> **Reference to other sections**

For disposal see section 13.

Section 7 Handling and Storage

> **Precautions for Handling**

- 1 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
- 2 Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

> Precautions for Storage

- 1 Keep container tightly closed in a dry and well-ventilated place.
- 2 Recommended storage temperature: 20°C

> Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

No information available

> Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

> Personal Protection Equipment

Eye Protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).
Skin and body Protection	Closed footwear. Working clothes.
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure	Do not let product enter drains.

Section 9 Physical and Chemical Properties

Appearance: Orange red crystal

Odor Threshold: No information available

Melting Point/Freezing Point(°C) : 69 - 72

Flash Point(°C) (Closed Cup): No information available

Flammability: No information available

Vapor Pressure (Mpa): No information available

Relative Density (Water=1): No information available

n-Octanol/Water partition Coefficient: No

Odor: A little odor

pH: 7-8

Initial Boiling Point and Boiling Range(°C): No information available

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: No information available; Lower limit: No information available

Relative Vapour Density (Air=1): No information available

Solubility: Insoluble in water

Auto-Ignition Temperature(°C): No information

information available
Decomposition Temperature(°C): No information available
Particle characteristics: No information available

available
Kinematic Viscosity(mm²/s): No information available

Section 10 Stability and Reactivity

Reactivity	No information Available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No information Available
Conditions to Avoid	No information Available
Incompatible Materials	Oxidizing agents
Hazardous Decomposition products	Other decomposition products - no data available In the event of fire: see section 5

Section 11 Toxicological Information

> Acute Toxicity

LD50 Oral - rat - 1,053 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Dyspnea.

Dermal: no data available

No information available

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	2226-96-2	4-Hydroxy-2,2,6,6-tetramethyl-piperidinoxy	Not listed	Not Listed

> Reproductive Toxicity

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

Inhalation - May cause respiratory irritation.

> **STOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

RTECS: TN8991000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 Ecological Information

> **Acute Aquatic Toxicity**

No information available

> **Chronic Aquatic Toxicity**

No information available

> **Others**

Persistence and Degradability

No information available

Bioaccumulative potential

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Section 13 Disposal Considerations

Waste Chemicals

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product.

Section 14 Transport Information

Transporting Label

Not applicable

UN Number

-

UN Proper Shipping Name

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport Hazard Class

None

Transport Subsidiary

None

Hazard Class
Packing Group -

Section 15 Regulatory information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Inhibitor 701	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing and Evaluated Chemical Substances.

Note

“√” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

Section 16 Additional Information

Creation Date 2018/1/6

Revision Date 2018/1/6

Reason for Revision -

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purpose. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.