# Chemical Safety Data Sheet MSDS / SDS

# (R)-(+)-2,2',6,6'-TETRAMETHOXY-4,4'-BIS(DI(3,5-XYLYL)PHOSPHINO)-3,3'-BIPYRIDINE

Revision Date: 2025-02-01 Revision Number: 1

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

#### **Product identifier**

Product name : (R)-(+)-2,2',6,6'-TETRAMETHOXY-4,4'-BIS(DI(3,5-XYLYL)PHOSPHINO)-3,3'-BIPYRIDINE

CBnumber : CB1116203 CAS : 443347-10-2

Synonyms : (S)-Xyl-P-Phos,CTH-(R)-Xylyl-P-PHOS

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

# **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 400-158-6606

# **SECTION 2: Hazards identification**

# GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word Warning

### Precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continuerinsing.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

### Hazard statements

H335 May cause respiratory irritation

H319 Causes serious eye irritation

H315 Causes skin irritation

# SECTION 3: Composition/information on ingredients

#### **Substance**

Product name : (R)-(+)-2,2',6,6'-TETRAMETHOXY-4,4'-BIS(DI(3,5-XYLYL)PHOSPHINO)-3,3'-BIPYRIDINE

Synonyms : (S)-Xyl-P-Phos,CTH-(R)-Xylyl-P-PHOS

CAS : 443347-10-2 MF : C46H50N2O4P2

MW : 756.85

# SECTION 4: First aid measures

### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

No data available

## Notes to physician

No data available

# **SECTION 5: Firefighting measures**

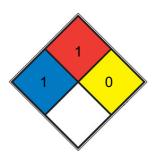
# Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Oxides of phosphorus

# Advice for firefighters

No data available

#### **NFPA 704**



HEALTH 1 Exposure would cause irritation with only minor residual injury (e.g. acetone, sodium bromate, potassium chloride)

Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion

1 can occur. Includes some finely divided suspended solids that do not require heating before ignition can occur. Flash point

at or above 93.3 °C (200 °F). (e.g. mineral oil, ammonia)

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)

SPEC.

**FIRE** 

HAZ.

# SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

#### **Environmental precautions**

No data available

# Methods and materials for containment and cleaning up

No data available

#### Reference to other sections

For disposal see section 13.

# SECTION 7: Handling and storage

# Precautions for safe handling

For precautions see section 2.2.

# Conditions for safe storage, including any incompatibilities

No data available

# SECTION 8: Exposure controls/personal protection

# control parameter

#### Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

| Appearance                              | solid                             |
|---|-----------------------------------|
| Odour                                   | No data available                 |
| Odour Threshold                         | No data available                 |
| рН                                      | No data available                 |
| Melting point/freezing point            | Melting point/range: 158 - 162 °C |
| Initial boiling point and boiling range | No data available                 |
| Flash point                             | No data available                 |
| Evaporation rate                        | No data available                 |

| Flammability (solid, gas)              | No data available   |
|--|---|
| Upper/lower flammability or explosive  | No data available   |
| limits                                 |   |
| Vapour pressure                        | No data available   |
| Vapour density                         | No data available   |
| Relative density                       | No data available   |
| Water solubility                       | insoluble   |
| Partition coefficient: n-octanol/water | No data available   |
| Autoignition temperature               | No data available   |
| Decomposition temperature              | No data available   |
| Viscosity                              | Viscosity, kinematic: No data available Viscosity, dynamic: No data available |
| Explosive properties                   | No data available   |
| Oxidizing properties                   | No data available   |
| •                                      |   |

# Other safety information

No data available

# SECTION 10: Stability and reactivity

## **Chemical stability**

No data available

# Possibility of hazardous reactions

No data available

# Conditions to avoid

No data available

# Incompatible materials

Strong oxidizing agents

# Hazardous decomposition products

In the event of fire: see section 5

# SECTION 11: Toxicological information

# Information on toxicological effects

Acute toxicity

Oral

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitization

No data available

## Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

## Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

No data available

# **SECTION 12: Ecological information**

# **Toxicity**

No data available

## Persistence and degradability

No data available

# Bioaccumulative potential

No data available

# Mobility in soil

No data available

# Results of PBT and vPvB assessment

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

# Other adverse effects

No data available

# SECTION 13: Disposal considerations

## Waste treatment methods

# **Product**

No data available

# **SECTION 14: Transport information**

#### **UN** number

ADR/RID: - IMDG: - IATA-DGR: -

#### **UN proper shipping name**

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA-DGR: Not dangerous goods

## Transport hazard class(es)

ADR/RID: - IMDG: - IATA-DGR: -

## **Packaging group**

ADR/RID: - IMDG: - IATA-DGR: -

#### **Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

#### Special precautions for user

#### Incompatible materials

Strong oxidizing agents

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

# Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

#### Measures for Environmental Management of New Chemical Substances

Vietnam National Chemical Inventory: Not Listed. website: https://chemicaldata.gov.vn/

United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/

New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/

EC Inventory:Not Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

**SECTION 16: Other information** 

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

EC50: Effective Concentration 50%

IATA: International Air Transportation Association

IMDG: International Maritime Dangerous Goods

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit TWA: Time Weighted Average

## References

[1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

[2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

[3] ECHA - European Chemicals Agency, website: https://echa.europa.eu/

[4] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

[5] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

[6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

[7] HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

[8] IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

[9] IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

【10】 Sigma-Aldrich, website: https://www.sigmaaldrich.com/

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.