MSDS

(S)-1-(Diphenylphosphino)-2-[(S)-4-isopropyloxazolin-2- Revision number: 5 yl]ferrocene

SAFETY DATA SHEET

Section1. IDENTIFICATION

Product name:(S)-1-(Diphenylphosphino)-2-[(S)-4-isopropyloxazolin-2-yl]ferrocene

Revision number:5

Section 2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDSNot classified

Not classified

HEALTH HAZARDS

ENVIRONMENTAL HAZARDSNot classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols None

Signal wordNo signal word

Hazard statements None

Precautionary statements: None

Section3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Substance/mixture:

Components:(S)-1-(Diphenylphosphino)-2-[(S)-4-isopropyloxazolin-2-yl]ferrocene

>96.0%(GC)(T)

Percent:

CAS Number: 163169-29-7

(S,S)-ip-FOXAP

Synonyms:

Chemical Formula: C28H28FeNOP

Section4. FIRST AID MEASURES

Inhalation:Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin contact:Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell. Rinse mouth.

Ingestion:

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-

tight goggles.

Section5. FIRE-FIGHTING MEASURES

Dry chemical, foam, water spray, carbon dioxide.

Suitable extinguishing

media:

Specific hazards arising Take care as it may decompose upon combustion or in high temperatures to

from the chemical:generate poisonous fume.

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Section5. FIRE-FIGHTING MEASURES

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protectiveWhen extinguishing fire, be sure to wear personal protective equipment.

equipment for firefighters:

Section6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Personal precautions,

protective equipment and Entry to non-involved personnel should be controlled around the leakage area by

emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.

containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

Section7. HANDLING AND STORAGE

Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment.

Technical measures:

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any

incompatibilities

Storage conditions:Keep container tightly closed. Store in a cool and dark place.

Store under inert gas.

Store away from incompatible materials such as oxidizing agents.

Air-sensitive

Packaging material: Comply with laws.

Section8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Install a closed system or local exhaust as possible so that workers should not be

Engineering controls:

exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Protective gloves.

Hand protection:

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation

requires.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):Solid

Form:Crystal- Powder

Pale yellow - Reddish yellow

Colour:

Odour:No data available

pH: No data available

Melting point/freezing point:160°C

No data available

Boiling point/range:

Flash point: No data available

Flammability or explosive

limits:

No data available

Lower:

Upper:No data available

Relative density: No data available

Solubility(ies):

No data available

[Water]

[Other solvents]No data available

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Section 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents

Hazardous decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides

(NOx), Phosphorus oxides

products:

Section11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eyeNo data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC =No data available

No data available

NTP =

Reproductive toxicity: No data available

Section12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available

Crustacea: No data available

Algae: No data available

Persistence / degradability: No data available

BioaccumulativeNo data available

potential(BCF): Mobility in soil

Log Pow:No data available

Soil adsorption (Koc): No data available

Henry's LawNo data available

constant(PaM3/mol):

Section13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material

with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

Observe all federal, state and local regulations when disposing of the substance.

Section14. TRANSPORT INFORMATION

Hazards Class:Does not correspond to the classification standard of the United Nations **UN-No**:Not listed

Section15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002

and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport,

loading and unloading were prescribed.

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SECTION 16 - ADDITIONAL INFORMATION

N/A