

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

#### Product Identifier

Product Name: PowerCure™ 784  
 Chemical Name: Bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]titanocene

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

Relevant applications identified For Industrial Use

#### Details of the supplier of the safety data sheet

**Company** TinToll Performance Materials Co., Ltd.  
 4F, Building 01, Xincheng Technology Park, No. 69  
 Olympic Avenue, Nanjing, China  
 Email: SDS@Tintoll.com

**Emergency Telephone Number:** +86-25-8468-0091

### SECTION 2: Hazardous identification

#### Classification of the substance or mixture

Flammable solids	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity - Repeated exposure [Category 2]	Organs
Long-term aquatic hazard	Category 2

#### Label elements



Pictogram

Signal Word

Danger

Hazard statement(s)

H228

Flammable solid.

H361FD

Suspected of damaging fertility. Suspected of damaging the unborn child.

H373

May cause damage to organs through prolonged or repeated exposure: Organs

H411

Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201

Obtain special instructions before use.

P210

Keep away from heat/sparks/open flames/hot surfaces. - No

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P241	smoking.
P280	Use explosion-proof electrical/ventilating/lighting equipment.
P308+P313	Wear protective gloves, protective clothing, face protection.
P273	IF exposed or concerned: Get medical advice or attention.
	Avoid release to the environment.

### Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

## SECTION 3: Composition/information on ingredients

### Substances

Formula:	$C_{30}H_{22}F_4N_2Ti$
Molecular weight:	534.4 g/mol
CAS-No. :	125051-32-3
EC-No. :	412-000-1
Percent:	>98.0%

## SECTION 4: First aid measures

### Description of first aid measures

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

#### In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

#### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

#### If swallowed

Get medical advice/attention. Rinse mouth.

#### Protection of first-aiders

A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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

No data available

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

No data available

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Dry chemical, foam, water spray, carbon dioxide.

**Special hazards arising from the substance or mixture**

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen fluoride

**Advice 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. When extinguishing fire, be sure to wear personal protective equipment

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

**Environmental precautions**

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned

**Methods and materials for containment and cleaning up**

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

**Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage****Precautions for safe handling**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent

the build up of electrostatic charge. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool and dark place. Store under inert gas.

Protect from moisture.

Store locked up. Store away from incompatible materials such as oxidizing agents.

Moisture-sensitive

**Specific end use(s)**

No further relevant information available.

## SECTION 8: Exposure Controls/Personal Protection

**Control parameters**

No data available

**Exposure controls**

Install a closed system or local exhaust. Also install safety shower and eye bath.

**Personal protective equipment**

**Eye/face protection**

Safety goggles. A face-shield, if the situation requires.

**Skin/body protection**

Impervious protective clothing. Protective boots, if the situation requires.

**Respiratory protection**

Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

**Hand protection**

Impervious gloves.

## SECTION 9: Physical and Chemical Properties

**Information on basic physical and chemical properties**

Physical state	Solid
Color	Yellow - Yellow red
Odor	No data available
Melting point/freezing point	192°C
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or	No data available

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explosive limits	
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Viscosity	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	No data available
<b>Other safety information</b>	
No data available	

## SECTION 10: Stability And Reactivity

### Chemical stability

Stable under proper conditions.

### Possibility of hazardous reactions

No special reactivity has been reported.

### Conditions to avoid

Spark, Open flame, Static discharge

### Incompatible materials

Oxidizing agents

### Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO<sub>x</sub>), Hydrogen fluoride

## SECTION 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Oral: No data available

Inhalation: No data available

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Dermal: No data available

**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**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

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

## SECTION 12: Ecological Effects

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

1.5

**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

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**SECTION 13: Disposal considerations****Waste treatment methods**

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.

**SECTION 14: Transport Information****UN number**

ADR/RID: 1325

IMDG: 1325

IATA: 1325

**UN proper shipping name**

ADR/RID: Flammable solid, organic, n.o.s

IMDG: Flammable solid, organic, n.o.s

IATA-DGR: Flammable solid, organic, n.o.s

**Transport hazard class(es)**

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

**Packing group**

ADR/RID: II

IMDG: II

IATA: II

**Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

**Special precautions for user**

No data available

**SECTION 15: Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Water Hazard Classes (WGK): Class 2 - Hazard to waters

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006: Not listed

**Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other Information****Further information**

It must be recognized that the physical and chemical properties of any product may not be fully

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understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.