

# SAFETY DATA SHEET

Revision Date 19-Jan-2018

Revision Number 3

## 1. Identification 1,1`-Bis(diisopropylphosphino)ferrocene

**Product Name** 

## AC363870000; AC363870025; AC363875000

CAS-No Synonyms

Cat No. :

97239-80-0 No information available

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

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

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Category 4 Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

#### **Hazard Statements**

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



# **Precautionary Statements**

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/sprav

Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eves

IF IN EYES: 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

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Storage

Store in a well-ventilated place. Keep container tightly closed

### Store locked up

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
1,1'-Bis(diisopropylphosphino)ferrocene	97239-80-0	98

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.		
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.		
Ingestion	Clean mouth with water. Get medical attention.		
Most important symptoms and	No information available.		
effects Notes to Physician	Treat symptomatically		

5. Fire-fighting measures			
Suitable Extinguishing Media	<b>0</b>	e (CO <sub>2</sub> ). Dry chemical. Chemica	I foam.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper Lower	No data available No data available		
Sensitivity to Mechanical Impac Sensitivity to Static Discharge			
Specific Hazards Arising from the C Keep product and empty container av		ignition.	
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> ) Oxides of phosphorus Heavy metal oxides Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
NFPA_ Health 2	Flammability 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	<ul> <li>use personal protective equipr</li> <li>al ecological information.</li> </ul>	nent.
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let Up this chemical enter the environment.			
	7. Handling a	<b>U</b>	
Handling	Avoid contact with skin and Do not ingest.	eyes. Do not breathe dust. Do n	ot breathe vapors or spray mist.
Storage	Keep in a dry, cool and well	-ventilated place. Keep containe	r tightly closed.
	•	personal protection	
Exposure Guidelines		ain any hazardous materials with ion specific regulatory bodies.	occupational exposure
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

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Physical State	Powder Solid
Appearance	Yellow-orange
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	53 - 57 °C / 127.4 - 134.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C22 H36 Fe P2
Molecular Weight	418.32
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of phosphorus, Heavy metal oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

### Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product		
Toxicologically Synergistic Products	No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Irritation	No information available		

#### Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
1,1'-Bis(diisopropylpho sphino)ferrocene	97239-80-0	Not listed	Not listed	Not listed	Not listed	Not listed
Iutagenic Effects		No information available				
Reproductive Effects	5	No information available.				
Developmental Effec	ts	No information available.				
<b>Feratogenicity</b>		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects, delayed	both acute and	and No information available				
Endocrine Disruptor Information No information available						
Other Adverse Effect	s	The toxicological properties have not been fully investigated.				
		12. Ecol	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into drai	ns.					
Persistence and Deg	d Degradability No information available					
Bioaccumulation/ Ac	cumulation	on No information available.				
Mobility		No information available.				
		13. Dispo	sal conside	erations		
Naste Disposal Meth	ods	Chemical waste ge	enerators must det	ermine whether a	discarded chemica	I is classified as

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information		
DOT	Not regulated	
DOT TDG IATA	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

#### International Inventories

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used. P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categories	See section 2 for more information	
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration	
CERCLA	Not applicable	
California Proposition 65	This product does not contain any Proposition 65 chemicals	
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transportation		
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homeland Secu This product does not contain any DH		
Other International Regulations		
Mexico - Grade	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Revision Date	19-Jan-2018	

Revision Date Print Date Revision Summary

19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS