

# SAFETY DATA SHEET

Creation Date 16-Oct-2009

Revision Date 23-Jan-2018

**Revision Number** 4

### 1. Identification

**Product Name** 

Di-tert-butyl N,N-diisopropylphosphoramidite AC426890000; AC426890010; AC426890050

Cat No. :

CAS-No Synonyms 137348-86-8 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)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

### Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



## Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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

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

### Eyes

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

### 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 %	
Di-tert-butyl N,N-diisopropylphos	phoramidite	137348-86-8	>95	
4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
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 plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician	Treat symptomatically			

	5. Fire-fightin	g measures	
Suitable Extinguishing Media	0	hol-resistant foam. Dry chemi	cal.
Unsuitable Extinguishing Media	Water		
Flash Point	113 °C / 235.4 °F		
Method -	No information available		
Autoignition Temperature	No information available		
Explosion Limits Upper	No data available		
Lower Sensitivity to Mechanical Impa	No data available ct No information available		
Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the Keep product and empty container as		ignition.	
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precaut As in any fire, wear self-contained bro protective gear.	ions for Firefighters		ved or equivalent) and full
NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions		n. Use personal protective equ	uipment.
Methods for Containment and Clea Up	<b>n</b> Soak up with inert absorber	nt material. Keep in suitable, c	closed containers for disposal.
	7. Handling a	and storage	
Handling	Wear personal protective er skin, or on clothing. Avoid in		entilation. Do not get in eyes, on
Storage	Keep refrigerated. Store un and well-ventilated place.	der an inert atmosphere. Kee	p container tightly closed in a dry
8. E	xposure controls /	personal protecti	on
Exposure Guidelines		in any hazardous materials w ion specific regulatory bodies	
Engineering Measures		ns and safety showers are clo n, especially in confined areas	ose to the workstation location. S.
Engineering Measures Personal Protective Equipment			
	Ensure adequate ventilation	n, especially in confined areas e eyeglasses or chemical safe	3.

Skin and body protection

Long sleeved clothing.

**Respiratory Protection** 

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

No protective equipment is needed under normal use conditions.

### 9. Physical and chemical properties

Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	85 - 90 °C / 185 - 194 °F @ 0.2 mmHg
Flash Point	113 °C / 235.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	0.879
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	C14 H32 N O2 P
Molecular Weight	277.39

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Moisture sensitive. Air sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water. Exposure to air.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO2), Oxides of phosphorus	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

### 11. Toxicological information

### Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products	No information available
	well as chronic effects from short and long-term exposure
Irritation	Irritating to eyes, respiratory system and skin

#### 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
Di-tert-butyl N,N-diisopropylphosph oramidite	137348-86-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effects		No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity No information available.						
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known						
Aspiration hazard	spiration hazard No information available					
Symptoms / effects delayed	,both acute and	cute and No information available				
Endocrine Disruptor Information No information available						
Other Adverse Effects The toxicological properties have not been fully investigated.						
		12. Ecol	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into dra	ains.					
Persistence and Degradability		Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation No information available.						
Mobility Will likely be mobile in the environment due to its volatility.			lity.			
			sal conside			
Waste Disposal Met	hods	hazardous waste.	Chemical waste g	enerators must al	discarded chemica so consult local, re ete and accurate cl	gional, and
		14 Trar	nsport infor	mation		

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

All of the components in the product are on the following Inventory lists: The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC X = listed U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS) Complete Regulatory Information contained in following SDS's

### 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 Health Not applicable	n Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chem

California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know	Not applicable

### Regulations

### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade	Slight risk, Grade 1

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Oct-2009 23-Jan-2018 23-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**