

# SAFETY DATA SHEET

Creation Date 10-Feb-2011

Revision Date 24-Dec-2021

Revision Number 5

### 1. Identification

**Product Name** 

# 4,4`-Bis(diethylamino)benzophenone

Cat No. :

**Synonyms** 

CAS No

AC170810000; AC170810250; AC170811000

90-93-7 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

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

<u>Company</u>

Fisher Scientific Company 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)

Toxic to aquatic life with long lasting effects

### 3. Composition/Information on Ingredients

Component		CAS No	Weight %
Methanone, bis[4-(diethylamino)phenyl]-		90-93-7	>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. Get medical attention.		
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		of water. Get medical attention if
Most important symptoms and	None reason	ably foreseeable.	
effects Notes to Physician	Treat sympto	matically	

### 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	151 °C / 303.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **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.

<u>NFPA</u>	Health 2	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal P	Precautions	Use personal protective equip formation.	uipment as required. Ensure ad	dequate ventilation. Avoid dust
Environme	ental Precautions	Do not flush into surface wa	ater or sanitary sewer system.	
Methods fo Up	or Containment and Cle	ean Sweep up and shovel into s containers for disposal.	suitable containers for disposal	. Keep in suitable, closed
		7. Handling a	and storage	
Handling			quipment/face protection. Avoi t get in eyes, on skin, or on clo	
Storage.		Keep containers tightly clos Materials. Oxidizing agent.	ed in a dry, cool and well-vent	ilated place. Incompatible
		Exposure controls /		
Exposure (	<u>Guidelines</u>		ain any hazardous materials wi ion specific regulatory bodies.	th occupational exposure
Engineerin	ng Measures	•	n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
<u>Personal P</u>	Protective Equipment			

Eye/face Protection	Tight sealing safety goggles.
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

2111
Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid Yellow Odorless No information available 4 @ 20°C 50 g/l H2O 93 - 95 °C / 199.4 - 203 °F No information available 151 °C / 303.8 °F Not applicable No information available

No data available No data available No information available No information available No information available No data available No information available > 360 °C Not applicable C21 H28 N2 O 324.45

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Light sensitive.	
Conditions to Avoid	Incompatible products. Avoid dust formation. Excess heat. Exposure to light.	
Incompatible Materials	Oxidizing agent	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

### Acute Toxicity

Product Information	No acute toxicity information is available for this product
Component Information	<i>,</i>
Toxicologically Synergistic	No information available
Products	
Delaved and immediate effects a	s well as chronic effects from short and long-term exposure

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
Methanone, bis[4-(diethylamino)ph enyl]-	90-93-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable		•	
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	both acute and	d No information available				
Endocrine Disruptor	· Information	No information available				
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methanone,	Not listed	LC50: 1.0 - 2.2 mg/l/96 H	Not listed	Not listed
bis[4-(diethylamino)phenyl]-		(Leuciscus idus)		

Persistence and Degradability May persist

**Bioaccumulation/Accumulation** 

No information available.

Mobility

**Hazard Class** 

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Methanone, bis[4-(diethylamino)phenyl]-	5.47

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a 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 UN-No Proper Shipping Name Technical Name	UN3077 Environmentally hazardous substances, solid, n.o.s. Methanone, bis[4-(diethylamino)phenyl]-

Methanone, bis[4-(diethylamino)phenyl]-9

Packing Group	III
<u>_ TDG</u>	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Methanone, bis[4-(diethylamino)phenyl]-	90-93-7	Х	ACTIVE	-	

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methanone,	90-93-7	Х	-	202-025-4	Х	Х	Х	Х	Х	KE-03016
bis[4-(diethylamino)phenyl]-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

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 Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

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

**Regulatory Affairs** 

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methanone, bis[4-(diethylamino)phenyl]-	90-93-7	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Methanone, bis[4-(diethylamino)phenyl]-	90-93-7	Not applicable	Not applicable	Not applicable	Not applicable

### 16. Other information

**Prepared By** 

Creation Date Revision Date Print Date Revision Summary 10-Feb-2011 24-Dec-2021 24-Dec-2021 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