

SAFETY DATA SHEET

 Creation Date 03-May-2010
 Revision Date 25-May-2017
 Revision Number 3

 1. Identification

 Product Name
 Benzophenone

 Cat No. :
 AC219680000; AC219680010; AC219680050; AC219680500; AC219682500

Synonyms

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

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

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Diphenyl ketone; Diphenylmethanone

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

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity Combustible dust

Category 2 Yes

Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air Suspected of causing cancer



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

Response

IF exposed or concerned: Get medical attention/advice

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component		CAS-No	Weight %				
Benzophenone		119-61-9	>95				
	4.	First-aid measures					
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute medical attention if symptoms occur.							
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention i symptoms occur.							
Inhalation	halation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.						
Ingestion Do not induce vomiting. Get medical attention if symptoms occur.							
Most important symptoms/effectsNo information available.Notes to PhysicianTreat symptomatically							
	5. Fi	re-fighting measures					

	3. The fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point	143 °C / 289.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Dust can form an explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

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 1	Flammability 1							
	6. Accidental re	lease measures						
Personal Precautions		uipment. Remove all sources of						
Environmental Precautions		hation. Avoid contact with skin, the environment. See Sectior						
Methods for Containment and Cl Up	ean Remove all sources of ignir container for disposal. Avo		pillage and collect in suitable					
	7. Handling a	and storage						
Handling		es and clothing. Avoid ingestio	entilation. Avoid dust formation. n and inhalation. Keep away from					
Storage	Keep containers tightly clos	sed in a dry, cool and well-vent	ilated place.					
8.	Exposure controls	/ personal protecti	on					
Exposure Guidelines		ain any hazardous materials w jion specific regulatory bodies.	ith occupational exposure					
Engineering Measures		n, especially in confined areas se to the workstation location.	. Ensure that eyewash stations					
Personal Protective Equipment								
Eye/face Protection		e eyeglasses or chemical safe action regulations in 29 CFR 19	ty goggles as described by 010.133 or European Standard					
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prever	nt skin exposure.					
Respiratory Protection	EN 149. Use a NIOSH/MS	r regulations found in 29 CFR HA or European Standard EN ed or if irritation or other symp						
Hygiene Measures	Handle in accordance with	good industrial hygiene and sa	afety practice.					
	9. Physical and ch	emical properties						
Physical State		Solid Off white						
Appearance Odor		Off-white aromatic						

Odor **Odor Threshold** рΗ Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate**

aromatic No information available No information available 47 - 49 °C / 116.6 - 120.2 °F 305 °C / 581 °F 143 °C / 289.4 °F No information available

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

No information available No data available No data available No information available

No information available 1.11 (H2O=1) No information available No data available No information available No information available C13 H10 O 182.22

10. Stability and reactivity

Reactive Hazard	None known, based on information available				
Stability	Stable under normal conditions.				
Conditions to Avoid	Avoid dust formation. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.				
Incompatible Materials	Strong oxidizing agents, Strong reducing agents				
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO ₂)					
Hazardous Reactions	None under normal processing.				

11. Toxicological information

Acute Toxicity

Product Information Component Information	-	No acute toxicity inf	ormation is availa	able for this product					
Componer	nt	LD50 Oral		LD50 Dermal	LC50	Inhalation			
Benzophenc	one	LD50 > 10 g/kg (Rat)	LD50 > 10 g/kg (Rat) LD50 = 3535 mg/kg (Rabbit) Not liste						
Toxicologically Syn Products	-	No information avail		d long torm overou					
Delayed and immed	liate effects	as well as chronic effec	ts from short an	ia long-term exposu	e_				
Irritation		No information avail	No information available						
Sensitization		No information avail	No information available						
Carcinogenicity		The table below ind	icates whether ea	ach agency has listed	any ingredient	as a carcinogen.			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Benzophenone	119-61-9	Group 2B	Not listed	Not listed	Х	Not listed			
Mutagenic Effects		No information avail	lable						
Reproductive Effects		No information avail	No information available.						
Developmental Effe	ects	No information avail	No information available.						
Teratogenicity		No information avail	lable.						

STOT - single exposure	None known
STOT - repeated exposure	None known

Aspiration hazard No information available

Symptoms / effects, both acute and No information available delayed

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information			
Benzophenone	Group III Chemical	Not applicable	Not applicable			
Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS						

complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzophenone	Not listed	Pimephales promelas: LC50	EC50 = 8.92 mg/L 30 min	LC50 = 0.27 mg/L 24h
		= 15.3 mg/L 96h	_	-
		Oryzias latipes: LC50 = 27		
		mg/L 48h		
Persistence and Degradat	bility No information	on available		

Persistence and Degradability

Bioaccumulation/Accumulation No information available.

Mobility

Component	log Pow
Benzophenone	3.2

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	UN3077							
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.							
Proper technical name	(BENZOPHENONE)							
Hazard Class	9							
Packing Group								
TDG								
UN-No	UN3077							
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.							
Hazard Class	9							
Packing Group								
UN-No	UN3077							
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s							
Hazard Class	9							
Packing Group	III							
IMDG/IMO								
UN-No	UN3077							
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s							

Hazard Class9Packing GroupIII

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzophenone	Х	Х	-	204-337-6	-		Х	Х	Х	Х	Х

Legend: X - Listed

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)

Component Benzophenone		TSCA 12(b) Section 4		
SARA 311/312 Hazard Categories Acute Health Hazard		No Yes		
Chronic Health Hazard Fire Hazard		Yes		
Sudden Release of Pressure Hazard		No		
Reactive Hazard		No		
Reactive Hazard				
CWA (Clean Water Act)	Not applicable			
Clean Air Act	Not applicable			
OSHA Occupational Safety and Not applicable	Health Administration			

CERCLA

Not applicable

California Proposition 65

This product contains the following proposition 65 chemicals

Component	CAS-No	California F	California Prop. 65		o 65 NSRL	Category
Benzophenone	119-61-9	Carcino	Carcinogen		-	Carcinogen
U.S. State Right-to-Know Regulations						
Component	Massachusetts	New Jersey	Pennsy	ylvania	Illinois	Rhode Island
Benzophenone	-	-	-	•	Х	-

U.S. Department of Transportation

Reportable Quantity (RQ): N

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	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	03-May-2010 25-May-2017 25-May-2017 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). SDS sections updated. 2.	

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