

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name:

Product code:

Product use:

Company:

TCI America

Telephone:

Fax:

e-mail:

Restrictions on use:

9211 N. Harborgate Street

Portland, OR 97203 U.S.A.

TCI AMERICA SAFETY DATA SHEET

B0083

Benzophenone For laboratory research purposes. Not for drug or household use. Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624

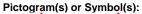
sales-US@TCIchemicals.com www.TCIchemicals.com

+1-800-423-8616 / +1-503-283-1681

+1-888-520-1075 / +1-503-283-1987

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 2B] Carcinogenicity [Category 2] Specific Target Organ Toxicity (Repeated Exposure) [Category 2] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]
Signal word:	Warning!
Hazard Statement(s):	Harmful if swallowed Causes eye irritation Suspected of causing cancer Toxic to aquatic life Toxic to aquatic life with long lasting effects May cause damage to organs through prolonged or repeated exposure: Liver Blood System Bone Marrow Kidney





Precautionary Statement(s): Obtain special instructions before use. Do not handle until all safety precautions have been read and [Prevention] understood. Do not breathe dust, fume, mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously [Response] with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Get medical advice or attention. Collect spillage. [Storage] Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 [Disposal] CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.). May be harmful if in contact with skin. Hazards not otherwise classified: [HNOC]

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Benzophenone
Percent:	>99.0%(GC)
CAS RN:	119-61-9
Molecular Weight:	182.22
Chemical Formula:	C13H10O
Synonyms:	Diphenyl Ketone

4. FIRST-AID MEASURES

Description of first aid measures				
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.			
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.			
Ingestion:	Get medical advice/attention.Rinse mouth.			
Symptoms/effects:				
Acute:	Redness.			
Delayed:	Possibly carcinogenic to humans.			

Indication of any immediate medical attention: Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	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. Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned. 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.			
7. HANDLING AND STORAGE				
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent			
	dispersion of dust. 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				
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.			
-	Store locked up.			
	Store away from incompatible materials such as oxidizing agents.			

Packaging material:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Comply with laws.

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
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.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

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	(0000)	0					
Physical sta	ite (20°C):	Solid	Develop				
Form: Colour:		Crystal	I - Powder - Pale yellow				
Odour:		Fragra					
Odour. Odor thresh	old		a available				
Odour thresh			a available				
ouour tilles	siloiu.	NO Uat	a available				
Meltina poir	nt/freezing point:	49°C (120°F)		pH:		No data available	
Boiling poin	t/range:	305°C (581°F		Vapour pressu	ure:	No data available.	
	tion temperature:	No data availa		Vapour densit		No data available	
Relative der		No data availa	able	Dynamic Visc		No data available	
Kinematic v	iscosity:	No data availa	able	•	•		
Log Pow:		No data availa	able	Evaporation ra	ate(Butyl	No data available	
				Acetate=1):			
		N N N				NI 17 111	
-lash point:		No data availa		Autoignition to		No data available	
-lammabilit	y(solid, gas):	No data availa	able		or explosive limits:	No doto ovoilable	
				Lower:		No data available	
				Upper:		No data available	
Solubility(ie	s):	lana bah	ala (107// 0				
[Water]	lvonto]	insolut	ole (137mg/L, 2	(0.6)			
Other so Soluble		Ethor	Alcohole Bonz	ene, Acetone, Chlorofo			
	, soluble:		ene glycol	ene, Acelone, Chiorolo	/////		
Insolub		Glycer					
		0.900					
10. STABI	LITY AND REACTIN	/ITY					
Reactivity:			a available				
Chemical st	ability:		under proper c				
	of hazardous reaction			as been reported.			
	e materials:	Oxidizi	ng agents, Red	lucing agents			
Hazardous o	decomposition produ	icts: Carbor	n dioxide, Carbo	on monoxide			
11 70//0							
TT. TOXIC	OLOGICAL INFORI	VIATION					
RIECS NUR	nber: DI9950000						
Acute Toxic	ity.						
orl-rat LD50:				orl-mus LD50:2	2895 ma/ka		
skn-rbt I D50):3535 mg/kg			ipr-mus LD50:2			
				.p. 1100 ED00.7			
Skin corros	ion/irritation:						
lo data avai							
	damage/irritation:						
lo data avai	lable						
	or skin sensitization	:					
lo data avai	lable						
	utagenicity:						
lo data avai	lable						
Carcinogen	•						
lo data avai	lable						
1450				alata availat t		No. Jacob 1971	
IARC:	Group 2B (Possibly	carcinogenic	NTP: No	o data available	OSHA	: No data available	
	to humans) .						
loorod	vo tovioituu						
eproductiv							
lo data avai	Ianie						

Target organ(s): May cause damage to organs through prolonged or repeated exposure: Liver Blood System Bone Marrow Kidney

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12. ECOLOGICAL INFORMA	ΓΙΟΝ				
Ecotoxicity:					
Fish:	48h LC50:27 ppm				
Crusterer	96h LC50:>10 mg/				
Crustacea: Algae:		L (Daphnia magna) (Selenastrum capricornutum)			
Aigae.	7211 E050.5.5 Hig/L				
Persistence / degradability:	0 % (by BOD) , 3 %				
Bioaccumulative potential(BCF) Mobility in soil	3.4 - 9.2 (conc. 0.3	ppm) , 3.4 - 12 (conc. 0.03 ppr	n)		
Log Pow:	3.38				
Soil adsorption (Koc):	430, 517				
Henry's Law (PaM ³/mol):	0.2				
13. DISPOSAL CONSIDERAT					
Disposal of product: Disposal of container:	Local rules and reg and burn in a cherr intended to provide with this section en Identification and L be allowed to enter	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. 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. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.			
Other considerations:	Observe all federal	Observe all federal, state and local regulations when disposing of the substance.			
14. TRANSPORT INFORMAT	ION				
DOT (US)					
UN number: Proper Ship	ping Name: ally hazardous substance,	Class or Division: 9 Miscellaneous hazardous material	Packing Group: 		
IATAUN number:Proper ShipUN3077Environmensolid, n.o.s	ping Name: ally hazardous substance,	Class or Division: 9 Miscellaneous hazardous material	Packing Group: III		
	Environmentally hazardous substance,		Packing Group: III		
EmS number:	F-A, S-F				

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

<u>US Federal Regu</u> CERCLA Hazardo SARA 313: SARA 302:	<u>lations</u> ous substance and Re	portable Quantity: Not Listed Not Listed		
State Regulation State Right-to-Kr Massachuse New Jersey Pennsylvania California Propos Other Information NFPA Rating: Health:	ow tts sition 65: n0	Not Listed Not Listed Not Listed Listed	HMIS Classification: Health:	0
Flammability: Instability:	1 0		Flammability: Physical:	1 0
International Inve Canada: DSL EC-No:	entories	On DSL 204-337-6		

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.