

SAFETY DATA SHEET

Revision Date 23-Jun-2022

Revision Number 8

1. Identification

Product Name Diphenylmethane

Cat No. :AC117350000; AC117350010; AC117355000CAS No
Synonyms101-81-5
Benzylbenzene.; 1,1`-Methylenebisbenzene

Recommended Use Uses advised against

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

Details of the supplier of the safety data sheet

Company Fisher Scient

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

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Diphenylmethane		101-81-5	<=100				
4. First-aid measures							
General Advice	If symptoms	persist, call a physician.					
Eye Contact	Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.						
Inhalation	Remove 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. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reason	ably foreseeable.					
Notes to Physician	Treat symptomatically						

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	127 °C / 260.6 °F
Method -	No information available
Autoignition Temperature	486 °C / 906.8 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. 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 0	Flammability 1	Instability 0	Physical hazards N/A
	lease measures		
Personal Precautions	Ensure adequate ventilatio formation.	n. Use personal protective equi	pment as required. Avoid dust

Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.			
Methods for Containment and Clear Up	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.			
	7. Handling and storage			
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.			
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.			
8. E>	posure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.			
Engineering Measures	None under normal use conditions.			
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	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

	. Thysical and chomical properties
Physical State	Solid
Appearance	Light yellow
Odor	sweet
Odor Threshold	No information available
рН	Not applicable
Melting Point/Range	24.5 - 25 °C / 76.1 - 77 °F
Boiling Point/Range	265 °C / 509 °F @ 760 mmHg
Flash Point	127 °C / 260.6 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.33 mbar @ 77 °C
Vapor Density	Not applicable
Specific Gravity	1.000
Solubility	insoluble
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	486 °C / 906.8 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C13 H12
Molecular Weight	168.24

		10. Stabi	lity and re	eactivity				
Reactive Hazard		None known, base	None known, based on information available					
Stability		Stable under norma	Stable under normal conditions.					
Conditions to Avoid	d	Incompatible produ	icts.					
Incompatible Mater	ials	Strong oxidizing ag	gents					
Hazardous Decomp	osition Produ	ucts Thermal decompos monoxide (CO), Ca			gases and vapors,	Carbon		
Hazardous Polyme	rization	No information ava	ilable.					
Hazardous Reaction	ns	None under norma	I processing.					
		11. Toxico	logical in	formation				
Acute Toxicity								
Product Information Component Information		No acute toxicity in	formation is ava	ilable for this produc	t			
Componer		LD50 Oral	let)	LD50 Dermal		Inhalation		
Diphenylmeth	lane	LD50 = 2250 mg/kg(R	(at)	Not listed		t listed		
Toxicologically Syr Products Delayed and immed	-	No information ava	cts from short	and long-term expo	sure			
Irritation		No information ava	No information available					
Sensitization		No information ava	No information available					
Carcinogenicity			The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Component Diphenylmethane	CAS No 101-81-5	IARC Not listed	NTP	ACGIH	OSHA Not listed	Mexico		
Mutagenic Effects	101-01-3		Not listed Not listed Not listed Not listed No information available Not listed Not listed Not listed					
Reproductive Effec	ts	No information ava	No information available.					
Developmental Effe	ects	No information ava	No information available.					
Teratogenicity		No information ava	No information available.					
STOT - single exposureNone knownSTOT - repeated exposureNone known								
Aspiration hazard		No information ava	o information available					
Symptoms / effects delayed	s,both acute a	and No information ava	No information available					
Endocrine Disrupto	or Information	No information ava	ilable					
Other Adverse Effe	cts	The toxicological p	roperties have r	ot been fully investig	ated.			

12. Ecological information

Ecotoxicity

Very 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.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available. Insoluble in water		
Bioaccumulation/Accumulation	No information available.		
Mobility	Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility.		

 Use 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 SUBSTANCE, SOLID, N.O.S.				
Technical Name	Diphenylmethane				
Hazard Class	9				
Packing Group	111				
TDG					
UN-No	UN3077				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Hazard Class	9				
Packing Group	111				
IATA					
UN-No	UN3077				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Hazard Class	9				
Packing Group					
IMDG/IMO					
UN-No	UN3077				
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Hazard Class	9				
Packing Group					
	15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Diphenylmethane	101-81-5	Х	ACTIVE	-

Legend:

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

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

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

Diphenylmethane

(KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Diphenylmethane	101-81-5	Х	-	202-978-6	Х	Х	Х	Х	Х	KE-23811

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
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
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U.S. State Right-to-Know Regulations	Not applicable
U.S. State Right-to-Know	

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Not applicable

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Diphenylmethane	101-81-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Diphenylmethane	101-81-5	Listed	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)

Diphenylmethane	101-81-5	Not applicable	Not applicable	Not applicable	Not applicable				
16. Other information									
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com								
Revision Date Print Date Revision Summary	23-Jun-2022 23-Jun-2022 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