

SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

trans-1,2-Dibenzoylethylene

Cat No. :

Synonyms

CAS No

AC112580000; AC112580010; AC112580050; AC112580250

959-28-4 1, 4-Diphenyl-2-Butene-1, 4 Dione.

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 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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
2-Butene-1,4-dione, 1,4-diphe	nyl-, (E)-	959-28-4	>95			
	1					
	4.	First-aid measures				
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. If not breathing, give artificial respiration. Get medical attention.					
Ingestion	Do NOT induce vomiting. Get medical attention.					
Most important symptoms and effects	No information available.					
Notes to Physician	Treat sympto	matically				

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
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

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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 1	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal I	Precautions	Ensure adequate ventilation formation.	n. Use personal protective equ	ipment as required. Avoid dust
Environmo	ental Precautions	Should not be released into	the environment.	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage					
Handling	Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin and eyes. Avoid contact with skin and clothing. Do not ingest. If swallowed then seek immediate medical assistance. Minimize dust generation and accumulation. Wash thoroughly after handling.					
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompat Materials. Strong acids. Oxidizing agent.					
8. E	xposure 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

9. PHys	sical and chemical properties
Physical State	Powder Solid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	108 - 112 °C / 226.4 - 233.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C16 H12 O2
Molecular Weight	236.27
-	

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Avoid dust formation.		
Incompatible Materials	Strong acids, Oxidizing agent		
Hazardous Decomposition Products 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 Component Information Toxicologically Synergistic Products <u>Delayed and immediate effects a</u>	No acute toxicity information is available for this product No information available s well as chronic effects from short and long-term exposure
Irritation	May cause skin, eye, and respiratory tract irritation
Sensitization	No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
2-Butene-1,4-dione, 1,4-diphenyl-, (E)-	959-28-4	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effect	ts	No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated ex		None known None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	s,both acute and	No information available							
Endocrine Disrupto	r Information	No information available							
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into dra	ains.								

Persistence and Degradability	Insoluble in water
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

	13. Disposal considerations				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classifi 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	Not regulated				
	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
2-Butene-1,4-dione, 1,4-diphenyl-, (E)-	959-28-4	Х	INACTIVE	-	

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
2-Butene-1,4-dione, 1,4-diphenyl-,	959-28-4	-	Х	213-498-1	-	-		-	-	-
(E)-										

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.
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation 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	No information available

Authorisation/Restrictions according to EU REACH

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)
2-Butene-1,4-dione, 1,4-diphenyl-, (E)-	959-28-4	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)
2-Butene-1,4-dione, 1,4-diphenyl-, (E)-	959-28-4	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Creation Date Revision Date Print Date Revision Summary 26-Sep-2009 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