

SAFETY DATA SHEET

Creation Date 08-Nov-2010	Revision Date 10-Feb-201	5 Revision Number 1
	1. Identification	
Product Name	Benzil	
Cat No. :	AC105410000; AC105410025; AC105415000	AC105410050; AC105411000;
Synonyms	Diphenylethanedione; Dibenzoyl	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the saf	No Information available	
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Entity / Business Name 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 /

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Category 2 Category 2 Europe: +32 14 57 52 99

Europe:001-703-527-3887

CHEMTREC Tel. No.US:001-800-424-9300 /

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



Precautionary Statements

Prevention Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzil	134-81-6	99

	4. First-aid	measures	
Eye Contact	Rinse immediately with ple Obtain medical attention.	nty of water, also under the eyelic	ls, for at least 15 minutes.
Skin Contact	Wash off immediately with	plenty of water for at least 15 min	utes. Obtain medical attention.
Inhalation	Move to fresh air. If breath symptoms occur.	ing is difficult, give oxygen. Get m	edical attention immediately if
Ingestion	Do not induce vomiting. Of	otain medical attention.	
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically		
	5. Fire-fightii		
Suitable Extinguishing Media	Water spray. Carbon dioxi	de (CO2). Dry chemical. alcohol-re	esistant foam.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature	No information available		
Explosion Limits Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available		
Specific Hazards Arising from the C Keep product and empty container aw		ignition.	
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters	emand, MSHA/NIOSH (approved	or equivalent) and full
NFPA_ Health 2	Flammability 1	Instability 0	Physical hazards N/A

	6. Accidental release measures
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. See Section 12 for additional ecological information.
Methods for Containment and Clea Up	In Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.
	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid dust formation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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	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

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	94 - 97 °C / 201.2 - 206.6 °F
Boiling Point/Range	346 - 348 °C / 654.8 - 658.4 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.3 hPa @ 128 °C
Vapor Density	No information available
Relative Density	1.230
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 346°C

Stability S Conditions to Avoid In	None known, based Stable under norma		3				
Stability S Conditions to Avoid In ncompatible Materials S	Stable under norma		vailable				
Conditions to Avoid In ncompatible Materials S							
ncompatible Materials S	Incompatible produ	ble under normal conditions.					
-	compatible products.						
lazardous Decomposition Products	Strong oxidizing ag	ents					
	Carbon monoxide (CO), Carbon diox	ide (CO2)				
lazardous Polymerization ⊢	Hazardous polyme	rization does not o	occur.				
lazardous Reactions	None under normal	processing.					
	11. Toxico	logical info	ormation				
Acute Toxicity							
Product Information N Component Information	No acute toxicity in	formation is availa	ble for this produc	t			
	No information ava		d long-term expo	sure			
	Irritating to eyes an						
Sensitization	No information ava	ilable					
Carcinogenicity T	The table below inc	licates whether ea	ach agency has list	ed any ingredient a	is a carcinogen.		
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Benzil 134-81-6 Autagenic Effects N	Not listed No information ava	Not listed	Not listed	Not listed	Not listed		
-	No information ava						
Developmental Effects	No information ava	ilable.					
-	No information ava	ilable.					
J - I							
Aspiration hazard	No information available						
Symptoms / effects,both acute and N lelayed Endocrine Disruptor Information N							
	The toxicological pr complete information		been fully investig	ated. See actual er	ntry in RTECS for		

12. Ecological information

Ecotoxicity

. Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzil	Not listed	Not listed	EC50 = 0.53 mg/L 5 min EC50 = 0.58 mg/L 15 min EC50 = 0.63 mg/L 30 min	Not listed
Persistence and Degradal	bility No information	on available		

Bioaccumulation/Accumulation

No information available.

Mobility

No information available.

Waste Disposal Methods

13. Disposal considerations 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 TDG IATA	Not regulated
<u>TDG</u>	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzil	Х	Х	-	205-157-0	-		Х	Х	Х	Х	Х

Legend: 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.

> Yes No No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
TSCA 12(b)	Not applicable

SARA 313 Not applicable

Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pres Reactive Hazard	sure Hazard	
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
State Right-to-Know	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ):	Ν

DOT Marine Pollutant	N
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

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials



16. Other information Prepared By Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com Creation Date 08-Nov-2010 Revision Date 10-Feb-2015 Print Date 10-Feb-2015 Revision Summary 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

Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

Harmonized System of Classification and Labeling of Chemicals (GHS)

End of SDS