

Benzil Safety Data Sheet 261

Safety Data Sheet 26171X2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/11/2016 Version: 1.0

SECTION 1: Identification .1. Identification Product form Substance name CAS No Product code Formula Synonyms Dther means of identification .2. Relevant identified uses of the sul Jse of the substance/mixture .3. Details of the supplier of the safet SynQuest Laboratories, Inc. P.O. Box 309 Vachua, FL 32615 - United States of America (386) 462-0788 - F (386) 462-7097 Info@synquestlabs.com - www.synquestlabs.com .4. Emergency telephone number Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit STOT SE 3 H335 - May cause respiratory is Full text of H-phrases: see section 16 .2. Label elements .3. GHS-US labeling .4.	a .com : (844) 523-4086 (3E Company - Account 10069) On or mixture
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GHS-US labeling	
lazard pictograms (GHS-US)	
	: GHS07
Signal word (GHS-US)	: Warning
lazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards	<u>,, , , , , , , , , , , , , , , , , , ,</u>		
No additional information available			
2.4. Unknown acute toxicity (GHS US)		
Not applicable			
SECTION 3: Composition/informa	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Benzil (Main constituent)	(CAS No) 134-81-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			· · · · · · ·
irst-aid measures general		affected personnel away from the	
First-aid measures after inhalation	: Remove person to fresh air respiration. Get medical ad	•	ning. If not breathing, give artificial
First-aid measures after skin contact	1 , 1	nd water. Get medical advice/att	
First-aid measures after eye contact	, , ,	roughly with water for at least 15 ntinue rinsing. Get medical advic	minutes. Remove contact lenses, if ce/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. N mouth out with water. Get r	lever give anything by mouth to a nedical advice/attention.	an unconscious person. Rinse
4.2. Most important symptoms and e	fects, both acute and delayed		
Symptoms/injuries	: The most important known 2.2) and/or in section 11.	symptoms and effects are descr	ibed in the labelling (see section
4.3. Indication of any immediate med	ical attention and special treatm	ent needed	
Treat symptomatically.			
SECTION 5: Firefighting measures	5		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Car appropriate for surrounding	bon dioxide. Dry powder. Water fire.	spray. Use extinguishing media
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Thermal decomposition ger	nerates: Carbon oxides.	
Explosion hazard	: When mixed with air and exercise explode if confined.	posed to an ignition source, dus	t may burn in the open air or
5.3. Advice for firefighters			
Firefighting instructions		ea. Fight fire remotely due to the	
Protection during firefighting		protective clothing in combination mation refer to section 8: "Expos	with self contained breathing ure controls/personal protection".
SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	equipment and emergency proc	edures	
General measures	: Evacuate unnecessary pers	sonnel. Ensure adequate air ven	tilation. Do not breathe dust.
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel eq	uipped with suitable protective e	quipment may intervene.
6.1.2. For emergency responders			
Protective equipment		on without suitable protective eque controls/personal protection".	upment. For further information
Emergency procedures	: Avoid raising dust. When m	• •	ignition source, dust may burn in source of ignition.
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12/06/2016	EN (EDUISTIUS)	SDS ID: 26171	X2 2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so.	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.	
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4. Reference to other sections		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined.	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.	
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, inclu	ding any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
-		

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 94 - 95 °C
Freezing point	: No data available
Boiling point	: 347 °C (at 1013.25 hPa)
Flash point	: 180 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.084 g/cm ³ (at 102 °C)
Molecular mass	: 210.23 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects : Not classified Acute toxicity Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified : May cause respiratory irritation. Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard

: Not classified

SECTION 12: Ecological information			
12.1.	Toxicity		
No addit	ional information available		
12.2.	Persistence and degradability		
No addit	ional information available		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3.	Bioaccumulative potential	
No additional information available		
12.4.	Mobility in soil	
No addit	onal information available	
10 5		
12.5.	Other adverse effects	

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.

- posal recommendations : Dispose of
- Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Recycle the material as far as possible.
- SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Benzil (134-81-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Benzil (134-81-6)

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

No additional information available

National regulations

Benzil (134-81-6)

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances)

15.3. US State regulations

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full tex	t of H-phrases:		
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
	Skin Irrit. 2	Skin corrosion/irritation Category 2	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
	H335	May cause respiratory irritation	
	nealth hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA f	ire hazard	: 1 - Must be preheated before ignition can occur.	
NFPA r	eactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS II	I Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur	
Flamma	ability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
Physica	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.