CONCENTRATION

< 100

Safety Data Sheet

1. Identification of the substance

1.1. Prod	duct identifiers:	Product Name: Synonyms:	4-Hydroxy-5,6-dimethyl-2h-pyran-2-one
		Catalog number:	HB-0482
		CAS Number:	50405-45-3
1.2. Iden	tified use:	Laboratory chemicals, for	r scientific research and development only.
1.3. Supp	plier:	Combi-Blocks, Inc., 794 635-8950. Email: sales@	9 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858- combi-blocks.com.
1.4. Eme	ergency Contact:	e	ours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. Af- nfotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (interna-

2. Hazards identification

2.1. Classification of the substance or mixture: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

No data.

2.2. GHS Label elements, including precautionary statements:

No known hazard.

3. Composition/information on ingredients.

3.1.	3.1. Substances			
	Component	CLASSIFICATION		
	4-Hydroxy-5,6-dimethyl-2h-pyran-2-one			

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	Remove victim to fresh air. In severe cases or if symptoms persist, seek medical attention.
In case of skin contact:	Immediately wash skin with copious amounts of water for at least 15 minutes while re- moving contaminated clothing and shoes. If irritation persists, seek medical attention.
In case of eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention.
If swallowed:	Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

4.2. *Most important symptoms and effects, both acute and delayed:* See Section 2.2 and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed: No data.

5. Fire fighting measures

- 5.1. Extinguishing media: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 5.2. Special hazards arising from the substance or mixture: Carbon monoxide.
- 5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4. *Further information:* No data available.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Use personal protective equipment. 7.

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6.2.	<i>Environmental precaut</i>	<i>ions:</i> into the environment. See Section 12 for additional ecological information.		
6.3.	•			
0.21	Sweep up or vacuum up spillage and collect in suitable container for disposal.			
6.4.	Reference to other sect			
	Refer to protective mea	asures listed in Sections 8 and 13.		
Handl	ing and storage			
7.1.	Precautions for safe ha	<i>indling:</i> Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.		
7.2.	Conditions for safe stor	<i>rage, including any incompatibilities:</i> Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.		
7.3.	Specific end use(s):	Laboratory chemicals, for scientific research and development only.		
Expos	ure Controls / Personal	protection		
8.1.	Control parameters:			
	Components with work	place control parameters: Contains no substances with occupational exposure limit values.		
8.2.	Exposure controls:			
	Appropriate engineerin	<i>ag controls:</i> Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
	Personal protective equ	uipment:		
	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 protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands		
	Body Protection:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
	Respiratory protection:			
	Control of environmen	<i>tal exposure:</i> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

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(a)	Appearance:	No data
(b)	Odour:	No data
(c)	Odour Threshold:	No data
(d)	pH:	No data
(e)	Melting point/freezing point:	No date.
(f)	Initial boiling point and boiling range:	No data
(g)	Flash point:	No data
(h)	Evaporatoin rate:	No data
(i)	Flammability (solid, gas):	No data
(j)	Upper/lower flammability or explosive limits:	No data
(k)	Vapour pressure:	No data
(1)	Vapour density:	No data
(m)	Relative density:	No data
(n)	Water solubility:	No data
(0)	Partition coefficient: n-octanol/water:	No data
(p)	Auto-ignition:	No data
(q)	Decomposition temperature:	No data
(r)	Viscosity:	No data
(s)	Explosive properties:	No data
(t)	Oxidizing properties:	No data

9.2.	Other safety information:			
		$C_7H_8O_3$		
	U	140.1		
	CAS Number	50405-45-3		
10. Stabi	lity and reactivity			
10.1.	Reactivity	No data		
10.2.	Chemical stability	Stable under recommended storage conditions.		
10.3.	Possibility of hazardous reactions No data			
	Conditions to avoid			
10.5. Incompatible material No data.				
10.6.	Hazardous decomposition products:			
	-	products formed under fire conditions: Carbon monoxide.		
	Other decomposition prod			
	In the event of fire:	See Section 5.		
11. Toxic	ological information			
11.1	Information on toxicologic	cal effects		
	Acute toxicity:	No data available.		
	Skin irritation/corrosion:	No data available.		
	Eye damage/irritation:	No data available.		
Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity:				
		No data available. No data available.		
	Reproductive toxicity:	No data available.		
	Specific target organ system toxicity - single exposure: No data available. Specific target organ system toxicity - repeated exposure: No data available.			
	Aspiration hazard:	No data available.		
	Additional information:	To the best of our knowledge, the chemical, physical and toxicological proper-		
		ties of this substance have not been thoroughly investigated.		
12. Ecolo	gical information			
12.1.	Toxicity	No data available.		
12.2.	Persistence and degradabi	<i>lity</i> No data available.		
	Bioaccumulative potential			
	Mobility in soil	No data available		
12.5. Results of PBT and vPvB assessme				
12.6.	Other adverse effects	No data available.		
13. Dispo	osal Considerations			
13.1.	Waste treatment methods			
		Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.		
	Contaminated packaging Dispose of as unused product.			

14. Transportation information

DOT (US), IMDG and IATA:

No known hazard for air and ground transportation.

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.