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Section 1. Product and Company Information

GHS Product Name:	Cubebin
Product Code:	PHE-28-5
CAS:	[18423-69-3]
Molecular Formula:	$C_{20}H_{20}O_6$
	Cubebine; beta-Cubebin; tetrahydro-3,4-dipiperonylfuran-2-ol; 2-Furanol, tetrahydro-3,4-
	dipiperonyl; 3,4-Bis[(1,3-benzodioxol-5-yl)methyl]tetrahydrofuran-2-ol;
Company:	MarkHerb
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	Bandung 40132
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Section 2. Hazards Identification

2.1 GHS classification				
PHYSICAL HAZARDS Not classified HEALTH HAZARDS Not classified				
			ENVIRONMENTAL HAZARDS Not classified	
2.2 GHS label elements, including precautionary statements				
Pictograms or hazard symbols None				
Signal word No signal word				
Hazard statements None				
Precautionary statements None				

Section 3. Information on Basic Physical and Chemical Properties

Physical States:	[] Gas [] Liquid [X] S	Solid
Melting Point:	131-132°C	
Boiling Point:	526.8°C at 760 mmHg	5
Flash Pt:	272.4°C	
Evaporation Rate:	No data.	
Flammability (solid, gas):	No data available.	
Explosive Limits:	LEL: No data.	UEL: No data.

Vapor Pressure (vs. Air or mm Hg):	6.29E-12 mmHg at 25°C
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Solubility in Water:	No data.
Solubility Notes:	Soluble in DMSO
Autoignition Pt:	No data.
Percent Volatile:	No data.
Partition coefficient:	No data.
рН:	No data.

Section 4. First aid measures

Description of first aid measures If inhaled		
If breathed in, move person into fresh air. If not breathing, give artificial respiration.		
In case of skin contact		
Wash off with soap and plenty of water.		
In case of eye contact		
Flush eyes with water as a precaution.		
If swallowed		
Never give anything by mouth to an unconscious person. Rinse mouth with water.		
Most important symptoms and effects, both acute and delayed		
The most important known symptoms and effects are described in the labelling (see section 2.2).		
Indication of any immediate medical attention and special treatment needed		
No data available		

Section 5. Fire Fighting Measures

Suitable extinguishing

Media: Dry chemical, alcohol-resistant foam, water spray, carbon dioxide.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective:

equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapors, mist or gas.
Environmental precautions
Do not let product enter drains.
General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

Section 7. Handling and Storage

Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Storage:

Store in a well closed container. Protected from air and light, refrigerate or freeze 2-8°C for short term (days to weeks) or -20°C for long term (months to years).

Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

Section 8. Exposure Controls / Personal Protection

Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters: Not set up

Personal protective equipment:

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Section 9. Stability and Reactivity

ReactivityStable under recommended transport or storage conditions.Chemical StabilityStable under normal temperatures and pressures.Conditions to AvoidIncompatible materials, strong oxidants, heat.Incompatibilities with Other MaterialsStrong oxidising/reducing agents, strong acids/alkalis.Hazardous Decomposition ProductsNitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.Hazardous PolymerizationHas not been reported.

Section 10. Toxicological Information

Acute Toxicity:	No data
Skin corrosion/irritation:	No data
Serious eye damage/irritation:	No data
Germ cell mutagenicity:	No data
Carcinogenicity:	IARC = No data NTP = No data
Reproductive toxicity:	No data

Section 11. Ecological Information

Toxicity:	No data
Persistence and degradability:	No data
Bioaccumulative potential:	No data
Mobility in soil:	No data
Results of PBT & vPvB assessment:	No data
Other adverse effects:	May be harmful to the aquatic environment.

Section 12. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 13. Transport Information

Hazards Class
Does not meet the criteria for classification as hazardous for transport.
UN proper shipping name ADR/RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
Transport hazard class(es)
Does not meet the criteria for classification as hazardous for transport.

Section 14. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture no data Chemical Safety Assessment no data

Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

-----End of safety data sheet----