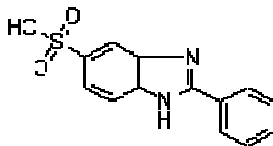




UNIPROMA CHEMICAL CO., LIMITED

2-1101, 259 Greenland Avenue, Huaqiao,
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Email: info@uniproma.com Website: www.uniproma.com

TECHNICAL DATA SHEET



1. Trade name:	Sunsafe-ES
2. Other name:	2-phenyl-1H-benzo[d]imidazole-5-sulfonic acid 2-Phenylbenzimidazole-5-sulfonic acid
3. Molecular formula:	C ₁₃ H ₁₀ N ₂ O ₃ S
4. Molecular weight:	274.29
5. CAS no. :	27503-81-7
6. Appearance:	White crystalline powder
7. Assay (HPLC) % :	98.0 - 102.0
8. Melting point °C:	300 min
9. Loss on drying %(at 105°C, 4 hour):	1.0 max
10. Specific absorbance (1%, 0.01cm at 302nm):	920 - 990
The above specification conforms with USP28-NF23	
11. Cl ⁻ %:	0.05 max
12. SO ₄ ⁻ %:	0.05 max
13. Package:	25kgs net per cardboard drum.
Application:	
I Ultraviolet absorber.	

****Value for Your Global Supply Chain****



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Sunsafe-ES

Chemical name: 2-Phenylbenzimidazole-5-sulfonic acid

CAS no.: 27503-81-7

Batch no.: U20090103-1

Manufacturing date: 3 Jan, 2009

Expiry date: 2 Jan, 2011

Quantity: 1000kg

Items	Specification	Results
1. Appearance:	White crystal powder	Pass
2. Assay (HPLC) %:	98.0 - 102.0	99.8
3. Melting point °C:	300 min	Pass
4. Loss on drying %(at 105°C, 4 hour):	2.0 max	0.82
5. Specific absorbance (1%, 0.01cm at 302nm):	920 - 990	978
The above specification conforms with USP28-NF23		
6. Cl ⁻ %:	0.05 max	0.03
7. SO ₄ ⁻ %:	0.05 max	0.025
Conclusion:	Pass	



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MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product and Company Identification

Trade name: Sunsafe-ES

Product name: 2-Phenylbenzimidazole-5-sulfonic acid

Company identification:

Uniproma Chemical Co., Limited

2-1101, 259 Greenland Avenue, Huaqiao, Kunshan, Suzhou, Jiangsu, 215332 China.

Tel: 86-21-34224291 34228743

Fax: 86-21-54801476

E-mail: info@uniproma.com

Website: www.uniproma.com

Section 2 - Composition, Information on Ingredients

CAS no.	Chemical Name	%	EINECS no.
27503-81-7	2-Phenylbenzimidazole-5-sulfonic acid	98.0 ~ 102.0	248-502-0

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract.

Inhalation: May cause respiratory tract irritation.

Chronic:

Section 4 - First Aid Measure

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

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Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Notes to Physician

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS No.: 27503-81-7

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Personal Protective Equipment

Eyes:

Wear safety glasses and chemical goggles if splashing is possible.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder

Color: white

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: > 300°C: (> 572.00°F)

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density:

Molecular Formula: C₁₃H₁₀N₂O₃S

Molecular Weight: 274.29

Section 10 - Stability and Reactivity

Chemical Stability: Not available

Conditions to Avoid: Not available

Incompatibilities with Other Materials: Not available

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Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization:

Has not been reported.

Section 11 - Toxicological Information

RTECS No.:

CAS No.: 27503-81-7: None listed

LD50/LC50:

RTECS: Not available.

Carcinogenicity:

2-PHENYLBENZIMIDAZOLE-5-SULFONIC ACID, 98% - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	Not available	Not available	Not available
Hazard Class:			
UN Number:			
Packing Group:			

Section 15: Other Regulatory Information

European/International Regulations

****Value for Your Global Supply Chain****



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European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS No.: 27503-81-7: 1

Canada

CAS No.:27503-81-7 is listed on Canada's DSL List

US Federal

TSCA

CAS No.: 27503-81-7 is listed on the TSCA Inventory.

Section 16 - Other Information

Last Updated: 7/16/1996

The information 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 event 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.