



INTERNATIONAL

# BIO-BASED CHEMICAL EXCELLENCE

Engineered for  
Modern Industries





We believe bio-based  
chemistry and  
sustainable innovation  
can build a greener,  
more responsible future  
for modern industries.



# DELIVERING EXCELLENCE FROM SOURCE TO SPECIFICATION

Since 2018

Backed by years of export-driven manufacturing expertise, LHP International delivers bio-based industrial chemicals with consistency, traceability, and global supply capability.

From CNSL to Cardanol, we combine structured sourcing, controlled processing, and documentation-driven quality systems for industrial buyers across the globe.



20+

Export Countries



\$20M

Annual Turnover



3

Global Facilities



1000

MT/Month  
CNSL Capacity



1000

MT/Month  
Cardanol Capacity



Packaging in Flexibag,  
ISO Tank, Drums



India-origin  
traceable  
bio-based  
chemical  
sourcing.



Independent  
CoA issued  
per shipment.  
Third party  
inspection facility  
is available.



Reach  
compliant.



Specification-  
driven quality  
and processing  
systems.

# LHP SPECIALITY CHEMICALS

## CASHEW NUT SHELL LIQUID (CNSL)




### PRODUCT OVERVIEW

Heated CNSL is produced at 180-220°C, through thermal processing and decantation by removing the moisture and ash content.



**CAS No.**  
37330-39-5a




**PURITY**  
99% minimum



**NATURE**  
Bio-based phenol derivative

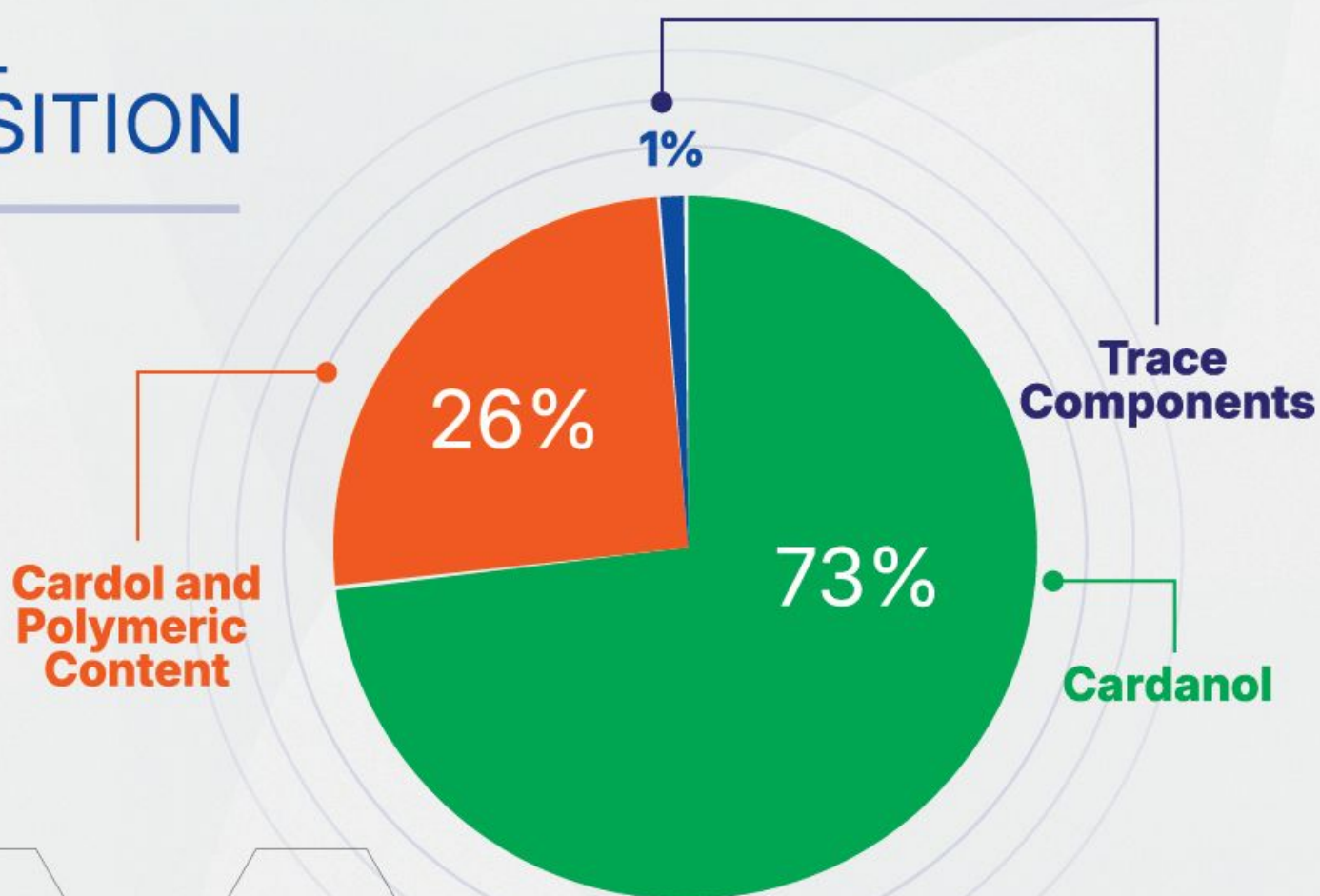


**COLOUR**  
Dark Reddish Brown



**ORIGIN**  
Cashew-derived feedstock, India

### TYPICAL COMPOSITION



## LHP SPECIALITY CHEMICALS CARDANOL



### PRODUCT OVERVIEW

Cardanol is obtained through vacuum fractional distillation of Heated CNSL at controlled temperatures, producing a high-performance bio-based alternative to petroleum phenol and a good blend in fossil fuels (Biofuel).



**CAS No.**  
8007-24-7



**GRADE**  
Distilled



**NATURE**  
Bio-based  
phenol derivative







**ORIGIN**  
Cashew Nut →  
Heated CNSL  
(India)



**MOQ**  
100 MT per  
shipment

### TYPICAL SPECIFICATIONS

PARAMETER	SPECIFICATION	UNIT / BASIS
 <b>Purity (Cardanol content)</b>	<b>93-99%</b>	<b>%</b>
 <b>Specific Gravity @ 25°C</b>	<b>0.92-0.96</b>	<b>g/cm<sup>3</sup></b>
 <b>Moisture Content</b>	<b>&lt;0.2%</b>	<b>%</b>
 <b>Flash Point (COC)</b>	<b>&gt;200°C</b>	<b>°C</b>

# EXPERTISE THAT POWERS DIVERSE INDUSTRIES

We supply CNSL and Cardanol solutions for coatings, resins, friction materials, surfactants, laminates and industrial applications across evolving global manufacturing sectors.



## MARINE & PROTECTIVE COATINGS

Phenalkamine hardeners deliver excellent salt-spray resistance for offshore, marine, and protective coating applications.



## FRICION MATERIALS

Used in asbestos-free brake pads, clutch facings, and industrial friction material binding systems.



## PHENOLIC RESINS & LAMINATES

Supports production of laminates, insulation boards, particle boards, and high-performance resin systems.



## RUBBER COMPOUNDING

Improves adhesion performance in tyre cord, conveyor belts, and industrial rubber product manufacturing.



## SURFACTANTS & EMULSIFIERS

Enables high-performance non-ionic and anionic surfactants for agrochemical and industrial cleaning formulations.



## INDUSTRIAL FUEL APPLICATIONS

High calorific value enables use as an industrial fuel substitute for boilers and furnaces.



## EPOXY & URETHANE SYSTEMS

Used in bio-based epoxy hardeners, polyurethane coatings, adhesives, and industrial sealant systems.

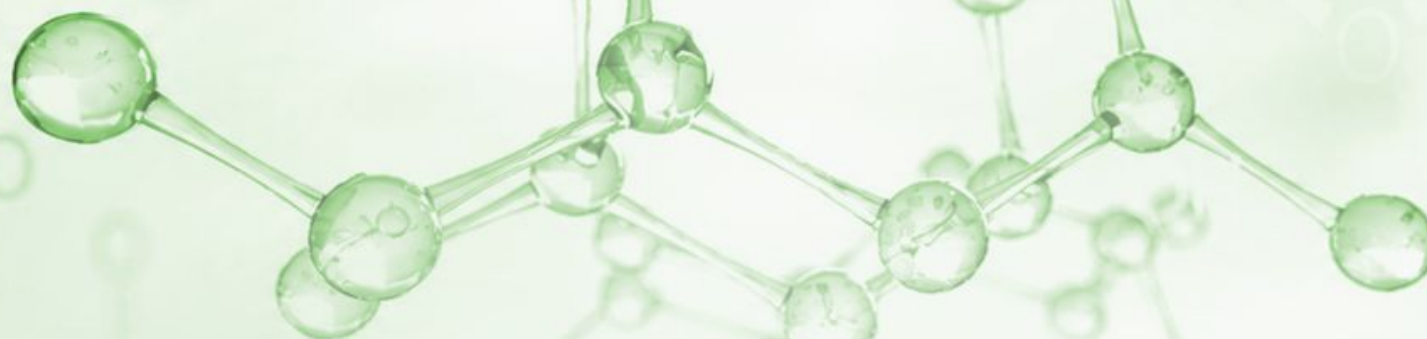


# 20+

**COUNTRIES SERVED**

With export-driven operations, structured supply systems, and international business presence across India, Singapore, and Vietnam, we proudly serve industrial buyers worldwide with reliable bio-based chemical solutions.





INTERNATIONAL

## LHP International Pvt Ltd

**LHP International supplies bio-based CNSL and Cardanol solutions** with export-driven operations, structured sourcing, independent quality verification, and global supply capabilities serving industrial buyers globally.

### **India Head Office & Plant**

Saraswati Industrial Complex  
J.L. No. 32, Bhandardaha  
Howrah – 711411,  
West Bengal, India

### **Singapore International Sales**

30 Cecil Street, #19-08  
Prudential Tower  
Singapore – 049712

### **Vietnam Asia-Pacific Operations**

Km6, Pham Van Dong Street  
Hai Phong City  
Vietnam



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