

Synthetic Rubber Plant Elemir

HIP-Petrohemija d.o.o.

Identification number:
TUS-HIPP-2250

Date:
06/06/2024

SPECIFICATION OF THE INPUT MATERIAL
Polymerization inhibitor in 1,3-butadiene extraction process – for pure 1,3-butadiene

1. Product name / chemical name:	Polymerization inhibitor / <i>Aromatic hydrocarbon mixture C10, >1% naphthalene, Diethylhydroxylamine</i>				
2. SAP code:	8106002				
3. Technical description:	<p>The polymerization inhibitor is dosed in the process of extraction of 1,3-butadiene at sites where 1,3-butadiene is most concentrated and most reactive (gas phases).</p> <p><i>Aromatic hydrocarbon mixture C10, >1% naphthalene:</i> CAS number: 64742-94-5 EC number: 919-284-0</p> <p><i>Diethylhydroxylamine:</i> CAS number: 3710-84-7 EC number: 223-055-4</p>				
4. Physical and chemical properties:	No.	Property	Method	Unit	Range of allowed values
	1.	Aromatic hydrocarbons C10, >1% naphthalene	-	%	50–100
	2.	Diethylhydroxylamine	-	%	10–20
	3.	N,N'-di-sec-butyl-1,4-phenylenediamine	-	%	5–10
	4.	2,6-di-tert-butylphenol	-	%	2.5–5
	5.	2-tert-butylphenol	-	%	0.25–0.5
	6.	2,4,6-tri-tert-butylphenol	-	%	0.25–0.5
	7.	2,4-di-tert-butylphenol	-	%	0.25–0.5

	8.	Flash point	Pensky-Martens closed-cup method	°C	53.9
	9.	Melting point	-	°C	-40
	10.	Relative density at 15.6°C	ASTM D 1298	-	0.89-0.9
	11.	Solubility in water	-	-	insoluble
	12.	Appearance	Visual	-	red liquid
5. Technical / accompanying documentation:	The Supplier is obliged to submit: <ul style="list-style-type: none"> - safety data sheet, in Serbian - test report - data sheet on safety measures - delivery note 				
6. HSE requirements:	-				
7. Delivery and labelling:	The chemical is delivered in the form of a liquid, in intermediate bulk containers – IBICs (1 m ³). Each package unit must have a list with the following data: <ul style="list-style-type: none"> - date - product name - data on the manufacturer (company) - lot/batch number - net mass of the package unit - production date - usage date 				
8. Transport:	Road transport				
9. Product eligibility criteria:	<p>Quality compliance with the requirements – The product is in compliance with the specified requirements if it meets the allowed tolerances in all aspects or all the requirements given in this specification and if it successfully passes the industrial test.</p> <p>Uniformity of delivery quality – Delivery of the input material should correspond to the approved sample for procurement. The sample is tested according to the Control and Testing Plan of Input Raw Materials and Chemicals in the SBR. The manufacturer must submit information on changes in its process of production and place of production, as well as samples of products produced under new conditions. After examining the documentation, testing the sample, and obtaining a positive outcome of the industrial trial run, the SBR gives its consent for the application and delivery of the input material.</p> <p>Delivery acceptance criterion – The criterion is met if the quality and quantity in relation to the accompanying documentation as well as the requirements in all aspects of this specification are confirmed by the input control.</p>				

