

	BP0402-SC048
	Version 1.0
Synthetic Rubber Plant Elemir HIP-Petrohemija d.o.o.	Identification number: TUS-HIPP-2249
	Date: 06/06/2024
<p align="center">SPECIFICATION OF THE INPUT MATERIAL</p> <p align="center">Anti-fouling agent in 1,3-butadiene extraction process</p>	

1. Product name / chemical name:	Anti-fouling agent (antifoulant) / <i>Mixture of dimethylformamide and N,N'-di-sec-butyl-1,4-phenylenediamine</i>				
2. SAP code:	8153496				
3. Technical description:	The anti-fouling agent (antifoulant) is dosed in the dimethylformamide (DMF) extractive solvent to minimize fouling in the process equipment, in the 1,3-butadiene extraction plant. <i>Dimethylformamide:</i> CAS number: 68-12-2 EC number: 200-679-5 <i>N,N'-di-sec-butyl-1,4-phenylenediamine:</i> CAS number: 101-96-2 EC number: 202-992-2				
4. Physical and chemical properties	No.	Property	Method	Unit	Range of allowed values
	1.	Dimethylformamide	-	%	30–50
	2.	N,N'-di-sec-butyl-1,4-phenylenediamine	-	%	30–50
	3.	Aromatic hydrocarbons C10, >1% naphthalene	-	%	5–10
	4.	Viscosity, dynamic (25°C)	-	mPas	4.6
	5.	Boiling point	-	°C	146.1
	6.	Flash point	Open cup	°C	60
	7.	Density	ASTM D 1298	g/cm ³	0.95

	8.	Solubility in water	-	-	Partially miscible
	9.	Appearance	Visual	-	Dark pink 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 metal barrels. 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>				