



PRODUCT SPECIFICATION

EP 040

REV 04

IDENTIFICATION

Chemical name	Arla - 32
Formula	Urea in aqueous solution
CAS-number:	57-13-6

PHYSICOCHEMICAL CHARACTERISTICS

Appearance	Colorless liquid with characteristic odor			
Characteristic	Unit	Minimum	Maximum	Method
Concentration of urea (m/m)	%	31.8	33.2	In accordance with ABNT NBR 22.241-2 (test methods)
Density at 20°C	Kg/m ³	1087.0	1093.0	
Refractive Index at 20°C	-	1.3814	1.3843	
alkalinity as NH ₃	%	-	0.2	
Biuret (m/m)	%	-	0.3	
Aldehydes	mg/Kg	-	5	
Insoluble	mg/Kg	-	20	
Phosphate (PO ₄)	mg/Kg	-	0.5	
Calcium	mg/Kg	-	0.5	
Iron	mg/Kg	-	0.5	
Copper	mg/Kg	-	0.2	
Zinc	mg/Kg	-	0.2	
Chrome	mg/Kg	-	0.2	
Nickel	mg/Kg	-	0.2	
Aluminum	mg/Kg	-	0.5	
Magnesium	mg/Kg	-	0.5	
Sodium	mg/Kg	-	0.5	
Potassium	mg/Kg	-	0.5	

MAIN APPLICATIONS

Automotive NO_x Liquid Reducing Agent

OTHER INFORMATION

UN No.	Product not covered by the Resolution in force on the transport of dangerous products.
No. of Risk	Product not covered by the Resolution in force on the transport of dangerous products.
Packaging	Containers made of HDPE, free of additives, in the following volumes: 10, 20, 200, 1000 liter IBC's and bulk trucks.
Cautious	Product not classified as dangerous or poisonous, however, when handling, it is recommended to use the following PPE: Rubber gloves, protective goggles (wide vision) and mask against alkaline vapors.
Storage	Keep stored in an open, covered, ventilated place, protected from sunlight, at a temperature above -11°C and below 30°C.
Shelf Life	Twelve months, depending on ideal storage conditions
Legal requirements	Normative instruction from IBAMA of 07/11/2009 and ABNT NBR ISO 22.241-1 (Quality requirements).

	Code	Description
Datasheet	146.01.0	Arla 32 - Storage
	162.01.0	Arla 32 - Evolux
	118.01.0	Arla 32 - Bulk
	119.01.0	Arla 32 - Bulk Carriers
	118.12.0	Blue Air – Arla 32 – 20 L Gallon w/ funnel
	118.18.0	Blue Air - Arla 32 - Gallon 20 L
	118.41.0	Blue Air - Arla 32 - IBCBM
	118.42.0	Blue Air - Arla 32 - IBCBA
	118.48.0	Blue Air - Arla 32 - IBCEV
	118.60.0	Blue Air - Arla 32 - PN 1000
	118.69.0	Blue Air - Arla 32 - PRVD
	118.23.0	Blue Air - Arla 32 - Drum 200 L
	119.60.0	Ecotec - Arla 32 - (PN1000)
	119.12.0	Ecotec – Arla 32 – 20 L Gallon w/ funnel
	119.18.0	Ecotec – Arla 32 – Gallon 20 L
	119.42.0	Ecotec – Arla 32 – IBCBA
	119.41.0	Ecotec – Arla 32 – IBCBM
	119.49.0	Ecotec – Arla 32 – IBCCL
	119.48.0	Ecotec – Arla 32 – IBCEV
	119.23.0	Ecotec – Arla 32 – 200 L Drum
	120.12.0	Greenchem – Arla 32 – Gallon 20 L
	120.41.0	Greenchem – Arla 32 – IBCBM
	120.60.0	Greenchem - Arla 32 - PN1000
	120.23.0	Greenchem – Arla 32 – 200 L Drum
	147.01.0	Ind Evolux – Arla 32 Bulk
	148.01.0	Ind Flua Araucária – Arla 32 in bulk
	176.01.0	Ind Ipiranga – Arla 32 Bulk
	149.01.0	Ind Petrobrás Flua – Arla 32 Bulk
	122.12.0	Ipiranga - Arla 32 - 20 L Gallon
	122.41.0	Ipiranga - Arla 32 - IBCCM
124.12.0	Shell Evolux Arla 32 – 20 L gallon w/ funnel	
Datasheet	124.18.0	Shell Evolux Arla 32 – 20 L Gallon
	124.41.0	Shell Evolux Arla 32 - IBCM

HISTORY OF CHANGES		
Date	Revision	Comments of Changes
-	02	Change in the numerical sequence of the specification, inclusion of the reference from Standard 22.241-2 in the Method field", change of the person responsible for approving the specification and the framework regarding the Legislation in force on the transport of hazardous products.
-	03	Revision of the form due to approval via the Qualiex system. Inclusion of omega codes. Unification of EP's 044, 053 and 050.
-	04	Correction of the method title that was written ABNT NBR ISO 22.241-2 and changed to ABNT NBR 22.241-2