



PRODUCT SPECIFICATION

EP 088**REV 00**

IDENTIFICATION

Chemical Name	Ammonia Solution 5/6%
Formula	NH ₄ OH
N° CAS	1336-21-6

PHYSICOCHEMICAL CHARACTERISTICS

Aspect	Liquid, clear and colorless.			
Characteristic	Unit	Characteristic	Unit	Characteristic
Density	g/mL	0,970	0,980	IT.CQ-0009
Concentration	%	5,6	5,8	
pH	-	10,5	13,0	

MAIN APPLICATIONS

Textile industry, agriculture, rubber, leather, lubricants, cosmetic, food, waste water treatment, production of films, photo printing, paints among others.

ADDITIONAL INFORMATION

ONU No.:	Product not covered by the resolution in force on the transport of dangerous products.
Risk No.	Product not covered by the resolution in force on the transport of dangerous products.
Packing	Bulk.
Cautions	Corrosive product. It decomposes when heated, releasing toxic gases. The inhalation or contact with eyes may cause serious injuries. In contact with the skin, it may cause irritation. For handling, use the following PPEs: "full face" mask or Moldex double filter for ammonia gas along with goggles (if you use a double filter with Moldex mask), long scuff gloves in PVC or nitrile, leather boots or rubber, apron in PVC (type barber), besides protective clothing fabrics suitable for chemicals.
Storage	Keep it stored in an open, covered, airy place away from sources of heat, ignition and incompatible products as reported in the SDS (FISPQ).
Validity:	Six months.
Legal Requirements	Product controlled by Federal Police – FP.

Technical Sheet	Code	Description
	186.01.0	Ammonia Solution 5/6%

HISTORY OF CHANGES

Date	Revision	Notes of changes
-	00	Initial issue

IDENTIFICATION				
Chemical Name	Ammonia Solution 20%			
Formula	NH ₄ OH			
CAS No.	1336-21-6			
PHYSICOCHEMICAL CHARACTERISTICS				
Aspect	Liquid, clear and colorless.			
Characteristic	Unit	Minimum	Maximum	Method
Density	g/mL	0.921	0.920	I.T 8.2.4-5
Concentration	%	20.0	21.0	I.T 8.2.4-5
Silica	ppm	-	1.0	I.T 8.2.4-11
p.H	-	12.0	13.5	I.T 8.2.4-31
MAIN APPLICATIONS				
Applications	Textile industry, agriculture, rubber, leather, lubricants, cosmetic, food, waste water treatment, production of films, photo printing, paints among others.			
ADDITIONAL INFORMATION				
ONU No.:	2672			
Risk No.	80			
Packing	Bulk, containers (IBCs) or polyethylene drums.			
Cautions	Corrosive product. It decomposes when heated, releasing toxic gases. The inhalation or contact with eyes may cause serious injuries. In contact with the skin, it may cause irritation. For handling, use the following PPEs: "full face" mask or Moldex double filter for ammonia gas along with goggles (if you use a double filter with Moldex mask), long scuff gloves in PVC or nitrile, leather boots or rubber, apron in PVC (type barber), besides protective clothing fabrics suitable for chemicals.			
Storage	Keep it stored in an open, covered, airy place away from sources of heat, ignition and incompatible products as reported in the SDS.			
Validity:	Six months.			
Legal Requirements	Product controlled by Federal Police - FP.			
Specifications	Code	Revision	Date	Page
	10.2672.400.4.	05	4/5/2010	01/01
Issued: Valdeci José Benedito			Approved: Wagner Coelho	
Signature:			Signature:	

UNCONTROLLED COPY

Text of informative character. Usiquímica do Brasil Ltda is free of any civil liability from the use of this material by third parties.



PRODUCT SPECIFICATION

EP 035

REV 09

IDENTIFICATION

Chemical name	24/ 25% Ammonia Solution
Formula	NH ₄ OH
CAS-number:	1336-21-6

PHYSICOCHEMICAL CHARACTERISTICS

Appearance	Liquid, clear and colorless			
Characteristic	Unit	Minimum	Maximum	Method
Density	g/mL	0.905	0.912	IT.CQ-0009
Concentration	%	24.0	26.0	

MAIN APPLICATIONS

Textile, agricultural, rubber, leather, lubricants, food, cosmetics, wastewater treatment, film production, photo development, paint industries, among others.

OTHER INFORMATION	
UN No.	2672
No. of Risk	80
Packaging	In bulk, containers (IBC's) or polyethylene drums.
Cautious	Corrosive product. Decomposes when heated, releasing toxic gases. Inhalation or eye contact can cause serious injury. In contact with the skin it can cause irritation. For handling, use the following PPE's: full face mask or moldex with double filter for ammonia gas together with wide vision goggles (if using the Moldex mask with double filter), long sleeves in PVC or nitrile, boots leather or rubber, pvc apron (barber-type), in addition to protective clothing with fabrics suitable for chemical products.
Storage	Keep stored in an open, covered, ventilated place, away from sources of heat, ignition and incompatible products as informed in the MSDS.
Shelf Life	Six months depending on ideal storage conditions.
Legal requirements	Product controlled by the Federal Police - FP.

Datasheet	Code	Description
	113.01.0	24/ 25% Ammonia Solution
	113.13.0	24/ 25% Ammonia Solution BB30IN
	113.15.0	24/ 25% Ammonia Solution BB50IN
	113.19.0	24/ 25% Ammonia Solution BBC
	113.49.0	24/ 25% Ammonia Solution IBCCL
	113.48.0	24/ 25% Ammonia Solution IBCEV
	113.42.0	24/ 25% Ammonia Solution IBCIN
	113.22.0	24/ 25% Ammonia Solution TP200IU

HISTORY OF CHANGES		
Date	Revision	Comments of Changes
08.10.2013	07	Update of the document layout, the technical instruction for product analysis and exclusion of the "silica" parameter control, as agreed with the commercial management, via e-mail, dated 05/08/2013.
-	08	Revision of the form due to approval via the Qualiex system. Inclusion of omega codes.
-	09	Correction of concentration limits.



PRODUCT SPECIFICATION

EP 081**REV 02**

IDENTIFICATION

Chemical name	26% Ammonia Solution
Formula	NH ₄ OH
CAS-number:	1336-21-6

PHYSICOCHEMICAL CHARACTERISTICS

Appearance	Liquid, clear and colorless			
Characteristic	Unit	Minimum	Maximum	Method
Density	g/mL	0.900	0.905	IT.CQ-0009
Concentration	%	25.0	27.0	

MAIN APPLICATIONS

Textile, agricultural, rubber, leather, lubricants, food, cosmetics, wastewater treatment, film production, photo development, paint industries, among others.

OTHER INFORMATION

UN No.	2672
No. of Risk	80
Packaging	In bulk, containers (IBC's) or polyethylene drums.
Cautious	Corrosive product. Decomposes when heated, releasing toxic gases. Inhalation or eye contact can cause serious injury. In contact with the skin it can cause irritation. For handling, use the following PPE's: full face mask or moldex with double filter for ammonia gas together with wide vision goggles (if using the Moldex mask with double filter), long sleeves in PVC or nitrile, boots leather or rubber, pvc apron (barber-type), in addition to protective clothing with fabrics suitable for chemical products.
Storage	Keep stored in an open, covered, ventilated place, away from sources of heat, ignition and incompatible products as informed in the MSDS.
Shelf Life	Six months depending on ideal storage conditions.
Legal requirements	Product controlled by the Federal Police - FP.

Datasheet	Code	Description
	114.01.0	26% Ammonia Solution

HISTORY OF CHANGES

Date	Revision	Comments of Changes
08.10.2013	00	Initial Issue
-	01	Revision of the form due to approval via the Qualiex system. Inclusion of omega codes.
-	02	Density change from 0.900 to 0.907 to 0.900 to 0.905.



USIQUÍMICA

IDENTIFICATION				
Chemical Name	Ammonia Solution 28%			
Formula	NH ₄ OH			
CAS No.	1336-21-6			
PHYSICOCHEMICAL CHARACTERISTICS				
Aspect	Liquid, clear and colorless.			
Characteristic	Unit	Minimum	Maximum	Method
Density	g/mL	0.898	0.894	I.T 8.2.4-5
Concentration	%	28.0	29.0	I.T 8.2.4-5
Silica	ppm	-	2.0	I.T 8.2.4-11
MAIN APPLICATIONS				
Applications	Textile industry, agriculture, rubber, leather, lubricants, cosmetic, food, waste water treatment, production of films, photo printing, paints among others.			
ADDITIONAL INFORMATION				
ONU No.:	2672			
Risk No.	80			
Packing	Bulk, containers (IBCs) or polyethylene drums.			
Cautions	Corrosive product. It decomposes when heated, releasing toxic gases. The inhalation or contact with eyes may cause serious injuries. In contact with the skin can cause irritation. For handling, use the following PPEs: facial mask "full face" or Moldex double filter for ammonia gas along with goggles (if you use a double filter with Moldex mask), long scuff gloves in PVC or nitrile, leather boots or rubber, apron in PVC (barber type), besides protective clothing fabrics suitable for chemicals.			
Storage	Keep it stored in an open, covered, airy place away from sources of heat, ignition and incompatible products as reported in the SDS.			
Validity	Six months			
Legal Requirements	Product controlled by Federal Police - FP			
Specifications	Code	Revision	Date	Page
	10.2672.3.00.8	06	4/5/2010	01/01
Issued: Valdeci José Benedito		Approved: Wagner Coelho		
Signature:		Signature:		

UNCONTROLLED COPY

Text of informative character. Usiquímica do Brasil Ltda is free of any civil liability from the use of this material by third parties.