	PRODUCT SPECIFICATION	EP 004
USIQUÍMICA		REV 06

IDENTIFICATION	
Chemical name	Hydrochloric acid 33%
Formula	HCl
CAS-number:	7647-01-0

PHYSICOCHEMICAL CHARACTERISTICS				
Appearance	Colorless to slightly yellow liquid.			
Characteristic	**Unit**	**Minimum**	**Maximum**	**Method**
tration (m/m HCl)	%	32.0	-	IT.CQ-0008
Density (20ºC)	g/mL	1.155	-	IT.CQ-0008
Iron (Fe)	ppm	-	20	Supplier specification

MAIN APPLICATIONS
Metal pickling, surface cleaning, chloride manufacturing, effluent treatment, cationic resin acidification, alkali neutralizer, among others.

OTHER INFORMATION	
UN No.	1789
No. of Risk	80
Packaging	Cans, drums, polyethylene or bulk containers
Cautious	Toxic and corrosive product, causes skin burns, can be fatal if ingested or inhaled. In contact with metals, it can release explosive gases.
Storage	Cool and airy place, sheltered from the sun's rays. It should not be stored in uncoated containers or near alkalis.
Shelf Life	Six months, depending on ideal storage conditions.
Legal requirements	Product controlled by the Federal Police - FP.

	Code	Description
Datasheet	102.01.0	Hydrochloric acid 33%
	102.01.5	33% hydrochloric acid - PI
	102.13.5	33% Hydrochloric Acid - PI - BB30IN
	102.15.5	33% Hydrochloric Acid - PI - BB50IN
	102.19.5	33% Hydrochloric Acid - PI - BBC
	102.49.5	33% Hydrochloric Acid - PI - IBCCL
	102.48.5	33% Hydrochloric Acid - PI - IBCEV
	102.42.5	33% Hydrochloric Acid - PI - IBCIN
	102.22.5	33% Hydrochloric Acid - PI - TP200IU
Datasheet	102.13.0	33% Hydrochloric Acid - BB30 IN
	102.19.0	33% Hydrochloric Acid - BBC
	102.62.5	33% Hydrochloric Acid - CBVD - PI
	102.49.0	33% Hydrochloric Acid - IBCCL
	102.48.0	33% Hydrochloric Acid - IBCEV
	102.42.0	33% Hydrochloric Acid - IBCIN
	102.70.0	33% Hydrochloric Acid - KTVD
	102.63.0	33% Hydrochloric Acid - SVVD
	102.22.0	33% Hydrochloric Acid - TP200IU

HISTORY OF CHANGES		
Date	**Revision**	**Comments of Changes**
07/25/2013	**05**	Update of the document layout and technical instruction for product analysis. Exclusion of the "iron" parameter, as agreed with the commercial management, via e-mail, dated 07.03.2013
-	**06**	Revision of the form due to approval via the Qualiex system and updating of the codes in the Omega system. Unification of specifications EP 0005 to EP 0009. Inclusion of the Iron item at the request of customers that appears in the Certificate of Analysis.