



Product Specification

cdhfinechemical.com

PERCHLORIC ACID 70% AR FOR DIAMOND INDUSTRY

PRODUCT CODE	605085
SYNONYMS	N/A
C.I. NO.	N/A
CASR NO.	7601-90-3
ATOMIC OR MOLECULAR FORMULA	HClO ₄
ATOMIC OR MOLECULAR WEIGHT	100.46
PROPERTIES	Strong oxidizing agent, will ignite vigorously in contact with organic materials, or detonate by shock or heat.
PARAMETER	LIMIT
Description	A clear liquid colour not more than 10 Hazen units.
Solubility	Mix 50 ml with 50 ml of water. The solution is clear & colourless with no separate phases.
Minimum assay (By acid imetric)	70.0%
Wt. per ml at 20°C	About 1.67 g
Substances insoluble in ethanol	Passes test.
MAXIMUM LIMIT OF IMPURITIES	
Residue on ignition (as SO ₄)	0.003%
Chloride (Cl)	0.0003%
Free chlorine (Cl ₂)	0.00005%
Nitrogen compound (N)	0.002%
Phosphate & Silicate	0.0005%
Sulphate (SO ₄)	0.001%
Cadmium (Cd)	0.00001%
Copper (Cu)	0.00001%
Iron (Fe)	0.0002%
Heavy metals (Pb)	0.00001%
Manganese (Mn)	0.00005%
Zinc (Zn)	0.00005%
Potassium (K)	0.002%
Sodium (Na)	0.002%
Note(s): Assay (if applicable) method mentioned.	
DANGER Hazard statements : May cause respiratory irritation. May intensify fire; oxidizer. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Precautionary statements Prevention: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take any precaution to avoid mixing with combustible or incompatible materials. Keep away from heat. Response : If skin irritation occurs, seek medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Wear eye/face protection. Specific treatment: refer to Label or MSDS.	IMDG Code : 8 (5.1)/I UN No. : 1873 IATA : 8 (5.1)
Disposal: The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company. Add bromine / iodine / inorganic peroxide / oxidants to be disposed to large amount of water and then make harmless by addition of acidic sodium thiosulphate solution	



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Hazard Pictogram(s) :



GHS03



GHS05



GHS07



GHS08

Replace Date 02-Dec-2025