




Quality Control Dept.

Product Specification

Product	: Nitric Acid – AR
CASR No.	: 7697-37-2
Molecular Formula	: HNO ₃
Molecular Weight	: 63.01 g/mol
Parameter	Limit
Description	: A clear oily liquid not more than 10 Hazen units in color
Assay (Titration with NaOH)	: 69.0 – 72.0 %
Relative Density	: Abt. 1.41
Maximum Limits of Impurities	
Residue on Ignition	: 10 ppm
Chloride (Cl)	: 0.5 ppm
Phosphate (PO₄)	: 1 ppm
Silicate (SiO₂)	: 0.5 ppm
Sulphates (SO₄)	: 2 ppm
Arsenic (As)	: 0.01 ppm
Iron (Fe)	: 0.2 ppm
Heavy Metals (Pb)	: 0.2 ppm
Manganese (Mn)	: 0.4 ppm
Copper (Cu)	: 0.1 ppm
Hazard Statement	: Fatal if inhaled. Harmful if swallowed. May be corrosive to metals. Causes severe skin burns and eye damage.
Prevention	: Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling. Wear respiratory protection. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Do not eat, drink or smoke when using this product. Do not breathe dust or mist. Wash thoroughly after handling.
Response	: Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Keep container tightly closed. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment: refer to MSDS. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. Absorb spillage to prevent material damage. Immediately call a POISON CENTER or doctor/physician.
Hazard Pictograms	: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Acute toxicity</p> </div> <div style="text-align: center;">  <p>Corrosive to metals</p> </div> <div style="text-align: center;">  <p>Oxidising liquids</p> </div> </div>
IMDG Code	: 8/II
UN No.	: 2031
IATA	: 8