




NITRIC ACID (1.41-1.42)

PRODUCT CODE	169215	HNO ₃
SYNONYMS	N/A	
C.I. NO.	N/A	
CASR NO.	7697-37-2	
ATOMIC OR MOLECULAR FORMULA	HNO ₃	
ATOMIC OR MOLECULAR WEIGHT	63.01	
PROPERTIES	Hygroscopic, strong oxidizing agent.	
PARAMETER	LIMIT	
Description	A clear liquid with a corrosive vapour.	
Solubility	Miscible with water, forming clear & colourless solution.	
Assay (acidimetric)	69.0-72.0%	
Wt. per ml at 20°C	1.41-1.42g	
MAXIMUM LIMIT OF IMPURITIES		
Non volatile matter	0.01%	
Hydrochloric acid (HCl)	0.005%	
Sulphuric acid (H ₂ SO ₄)	0.01%	
Arsenic (As)	0.0001%	
Iron (Fe)	0.005%	
Lead (Pb)	0.0005%	
Note(s): Assay (if applicable) method mentioned.		
DANGER HAZARD STATEMENTS: Highly flammable liquid and vapour. Fatal if inhaled. Toxic if swallowed. Causes severe skin burns and eye damage. PRECAUTIONARY STATEMENTS : Prevention: Wear protective gloves/clothing and eye/face protection. Ground/bond container and receiving equipment. Do not breathe dust or mist. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Wear respiratory protection. Wear protective gloves and eye/face protection. Keep away from heat/sparks/open flame - No smoking. Keep container tightly closed. Use only non-sparking tools. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Response : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. In case of fire, use dry agent for extinction. Absorb spillage to prevent material damage. In case of fire, use foam for extinction. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower. Specific treatment: refer to Label or MSDS. IF SWALLOWED:		IMDG Code :8 (5.1)/II UN No. : 2031 IATA :8 (5.1)
Disposal: The chemical is disposed off by its slow addition to an excess of water. The final concentration should not be greater than 2%. Neutralize with 5% hydrochloric acid and run to waste with large quantities of running water.		
Hazard Pictogram(s) :-		
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Replace date 28-Nov-2025