



# NITRIC ACID

## WHAT YOU NEED TO KNOW

**MORE STRINGENT CLASSIFICATION & LABELLING**

**ACUTE TOXICITY CAT. 3 FOR CONCENTRATIONS >26%**



**NEW RULES FOR HANDLING, STORAGE & TRAINING**

**CHRISTEYNS OFFERS EFFECTIVE ALTERNATIVES**

**FEEL SAFE WITH US**

  
**CHRISTEYNS**  
FOOD HYGIENE



**Nitric Acid (HNO<sub>3</sub>) is a strong oxidising agent, commonly used for cleaning food and dairy equipment, primarily to remove precipitated calcium and magnesium compounds.**

### NEW CLASSIFICATION HNO<sub>3</sub>

The goal of REACH (Registration, Evaluation and Authorisation of Chemicals) is to improve the protection of human health and the environment from the risks that can be posed by chemicals.

New test data on nitric acid showed that nitric acid is more toxic via inhalation than previously thought. Handling nitric acid cleaning agents and inhaling the vapours can lead to serious health damage. Therefore the European manufacturers of nitric acid have re-classified the product :

CONTENT OF HNO <sub>3</sub>	CLASSIFICATION FOR HUMAN HEALTH
≤ 13%	No classification
>13% - ≤ 26%	Acute toxicity cat. 4 if inhaled
>26% - ≤ 100%	Acute toxicity cat.3 if inhaled 

### STORAGE

For aqueous solutions >26%, the reclassification of Nitric Acid may have consequences on the storage conditions. Distance rules must be taken into account. The product cannot be stored not transported together with other chemicals. Please check with your local authorities for more information.

### HANDLING

New recommendations on prevention measures and response actions are in place. Companies are obliged to take the necessary safety measures to ensure the health of their employees during handling and disposal of the chemicals. This implies the workers need to be properly informed and trained.

### ALTERNATIVES

Christeyns can offer you several alternatives, ranging from detergents with reduced nitric acid content that are not labelled as toxic, to products without nitric acid.

Our extensive MIDA FLOW range offers plenty of highly effective solutions for your particular needs. Discover our newest innovation MIDA FLOW 215 MG, successfully tested and implemented in European dairy plants.



### MIDA FLOW 215 MG

HNO<sub>3</sub>-free and P-free acid detergent with excellent foam control properties. Contains a combination of organic acids and surfactants.

- 🌀 Excellent activity in removing organic dirt, fats and proteins, lime scale and mixed organic/inorganic residues
- 🌀 Can be used as single-stage product, allowing savings in time, water & energy
- 🌀 Mainly used in dairy industry to clean road tanks, milk receiving lines, tanks, molds and other dairy technology
- 🌀 No issue with hazard classification and handling

**Christeyns, your professional partner in good hygiene practices.**

#### DOUBTS OR QUESTIONS?

Contact your local Christeyns rep to help you find a solution that fits your personal situation.