

REVISION DATE: 5th February 2009



## SAFETY DATA SHEET

### Nitric Acid 20 -69%

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Nitric Acid 20 -69%  
 SUPPLIER Univar  
 46 Peckover Street  
 BRADFORD  
 West Yorkshire  
 BD1 5BD  
 +44 1274 377000  
 +44 1274 377001  
 sds@univareurope.com  
 Emergency Contact Number (Office Hours) +44 1274 377070  
 SDS No. N006

#### 2 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION C;R35.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
NITRIC ACID ...%	231-714-2	7697-37-2	50-100%	O;R8 C;R35

The Full Text for all R-Phrases are Displayed in Section 16

EC No. 231-714-2

CAS-No. 7697-37-2

#### 4 FIRST-AID MEASURES

##### INHALATION

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Keep the affected person warm and at rest. Get prompt medical attention.

##### INGESTION

Remove victim immediately from source of exposure. Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions.

##### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

##### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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**Nitric Acid 20 -69%**

## SPECIFIC HAZARDS

Nitric acid (HNO<sub>3</sub>). Oxides of: Nitrogen.

## PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES**

## PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

## ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

## SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**7 HANDLING AND STORAGE**

## USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Mechanical ventilation or local exhaust ventilation is required. Eye wash facilities and emergency shower must be available when handling this product.

## STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

## STORAGE CLASS

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
NITRIC ACID ...%				1 ppm	2.6 mg/m <sup>3</sup>	

mg/m<sup>3</sup>

## PROTECTIVE EQUIPMENT



## RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

## HAND PROTECTION

Butyl rubber gloves are recommended.

## EYE PROTECTION

Goggles/face shield are recommended.

## OTHER PROTECTION

Wear rubber apron. Wear rubber footwear. Provide eyewash station and safety shower.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

## APPEARANCE

Liquid

## COLOUR

Colourless to Yellowish

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ODOUR	Pungent		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	122	MELTING POINT (°C)	<-41
RELATIVE DENSITY	1.117 - 1.415	VAPOUR PRESSURE	9 mm Hg 20°C
pH-VALUE, CONC. SOLUTION	<1		

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions and recommended use.

## CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

## MATERIALS TO AVOID

Strong alkalis. Strong oxidising substances. Strong reducing agents.

## HAZARDOUS DECOMPOSITION PRODUCTS

Nitric acid (HNO<sub>3</sub>). Oxides of: Nitrogen.

**11 TOXICOLOGICAL INFORMATION**

## INHALATION

Prolonged inhalation of high concentrations may damage respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

## INGESTION

Causes severe burns. Swallowing concentrated chemical may cause severe internal injury. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

## SKIN CONTACT

Causes severe burns. Corrosive. Prolonged contact causes serious tissue damage.

## EYE CONTACT

Causes severe burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

## MEDICAL SYMPTOMS

Extreme irritation of eyes and mucous membranes, including burning and tearing.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

## MOBILITY

The product is soluble in water.

## BIOACCUMULATION

The product does not contain any substances expected to be bioaccumulating.

## DEGRADABILITY

The product is not readily biodegradable.

**13 DISPOSAL CONSIDERATIONS**

## GENERAL INFORMATION

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

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**Nitric Acid 20 -69%****14 TRANSPORT INFORMATION**

UK ROAD CLASS	8	UK ROAD PACK GR.	II
PROPER SHIPPING NAME	NITRIC ACID	ADR CLASS	Class 8: Corrosive substances.
UN NO. ROAD	2031	HAZARD No. (ADR)	80
ADR CLASS NO.	8	HAZCHEM CODE	2R
ADR PACK GROUP	II	RID PACK GROUP	II
ADR LABEL NO.	8	IMDG CLASS	8
RID CLASS NO.	8	EMS	F-A, S-B
UN NO. SEA	2031	MARINE POLLUTANT	No.
IMDG PACK GR.	II	AIR CLASS	8
MFAG	See Guide		
UN NO. AIR	2031		
AIR PACK GR.	II		

**15 REGULATORY INFORMATION**

## LABELLING



Corrosive

CONTAINS NITRIC ACID 69%

## RISK PHRASES

R35 Causes severe burns.

## SAFETY PHRASES

S23 Do not breathe vapour/spray.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S60 This material and its container must be disposed of as hazardous waste.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

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**Nitric Acid 20 -69%****16 OTHER INFORMATION**

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REV. NO./REPL. SDS GENERATED 05

SDS NO. N006

SAFETY DATA SHEET STATUS

Approved.

DATE 5th February 2007

SIGNATURE Jitendra Panchal

RISK PHRASES IN FULL

R35 Causes severe burns.

R8 Contact with combustible material may cause fire.