WF Education Group - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 16 April 2021 07 June 2021

NI429

Section 1. Identification

1.1	Product Identifier	NI4290
	Product Name	NITRIC ACID 2.0M (2N) 1L.
	CAS Number REACH Registration No	Mixture A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
1.2 Relevent identified uses of the substance or mixure & uses advised against Uses of MaterialChemical for industrial and laboratory use. Not suitable for domestic use.		
1.3	Supplier	WF Education Group



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 112
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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Corrosive to metals, category 1 Skin corrosion/irritation, category 1B H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger



Hazard Statements

Hazard Pictograms

Causes severe skin burns and eye damage. May be corrosive to metals.

Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Section 3. Composition

3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Nitric acid	7697-37-2	231-714-2	01-2119487297-23-XXXX	12.6%	Ox. Liq. 3, Met. Corr. 1, Skin Corr. 1A, Acute Tox. 3 (I)

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards

May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Enviromental

Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with
copious amounts of water.Minor SpillageNeutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious
amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration		Workplace E	Exposure Limits	
			Long Terr	n (8hr TWA)	Short Term 15min pe	eriod)
Nitric acid	7697-37-2	12.6%	-	-	1.0 ppm	2.8 mg/m-3
Exposure data source(s)		IOELV: Indicative Occupatio	nal Exposure Li	mit Value.		
8.2 Exposure con	trols					
Respiratory Protection		Use L.E.V. or natural ventilat maintained chemical cartridge			below exposure limits. If not, thing apparatus.	use a well
Hand Protection		Use PVC gauntlets.				
Eye Protecti	ion	Use tightly fitting chemical sp	blash proof glass	ses or goggles.		
Skin Protect	tion	If skin contact or contamination	on of clothing is	likely, protective clot	hing must be worn.	
Special Haz	ards	No special precautions require	ed.			

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Odourless.
pH	1 @ 20°C
Boiling Point	100 °C Aqueous solution
Melting Point	0 °C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	1.0650
Water Solubility	Completely soluble in water.

9.2 Other information

Section 10. Stability & Reactivity

Reactivity	No data available.
Chemical Stability	Stable under normal conditions
Possibility of hazardous reactions	No data available.
Conditions to Avoid	No specific conditions.
Incompatable Materials	Reducing agents. Alkalis.
Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.
	Chemical Stability Possibility of hazardous reactions Conditions to Avoid Incompatable Materials Hazardous Decomposition

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	The liquid will be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid will cause burns. Dilute solutions will be irritating to the skin.
LD50 Skin	Not available
Ingestion	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.
LD50 Oral	Not available
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	No information is available.
Reproductive Effects	None identified.

Section 12. Ecological

12.1	Toxicity	Acidic, nutrient for undesirable algae.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods Disposal Methods

Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts of water.

Contaminated Packaging Very carefully wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.2	UN Number Proper Shipping Name	2031 Nitric acid	\bigtriangleup
	Proper Shipping Name	Nitric acid	
14.3			
	Transport classes UN classification Subsidiary hazard(s)	8 None	CORROSIVE
	Transport category ADR Hazard ID Tunnel Restriction Code	2 80 E	8
14.4 I	Packing Group	II	
14.5 I	Environment hazards	See section 12.	
	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Corrosive to metals, category 1; Skin corrosion/irritation, category 1B
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H314, H290 Causes severe skin burns and eye damage. May be corrosive to metals.
Precautionary Statements	P280, P260, P303+P361+P353, P304+P340, P305+P351+P338, P301+P330+P331 Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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