# Rowe Scientific ICP/AAS nontoxic metal standards in 0.1-2% nitric acid ROWE SCIENTIFIC

Chemwatch: 4690-61

Version No: **17.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 11/07/2022 Print Date: 29/09/2022 L.GHS.AUS.EN.E

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

**Product Identifier** 

Product name	Rowe Scientific ICP/AAS nontoxic metal standards in 0.1-2% nitric acid	
Chemical Name	Not Applicable	
Synonyms	BA0980, BB20015, BC0990, BC1010, BC1585, BP1510, BP1515, BC1590, BC2005, BC2010, BI2050, BL0990, BL1000, BL1002, BM1005, BM1501, BM2010, BN0990, BN1050, BP1517, BP2070, BS1080, BS1505, BS2005, BZ1390, BZ1810, CC0869, CG0252, CI0257, CN0390, CN0395, CN1187, CP1141, CQ4000, CQ4010, CQ4015, CQ4020, CS1692, CS1741, CY1025, CZ0047, ST1956, SS0125, CZ0047, CH0366, CH0367.	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Laboratory reagent.

#### Details of the manufacturer or supplier of the safety data sheet

Registered company name	ROWE SCIENTIFIC
Address	11 Challenge Boulevard Wangara WA 6065 Australia
Telephone	+61 8 9302 1911
Fax	+61 8 9302 1905
Website	http://rowe.com.au/
Email	rowewa@rowe.com.au

#### Emergency telephone number

Association / Organisation	ROWE SCIENTIFIC
Emergency telephone numbers	+61 8 9302 1911 (24 Hrs)
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

Classification of the substance or mixture	
Poisons Schedule	S5
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Precautionary statement(s) Pre	evention
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

# Precautionary statement(s) Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

# **SECTION 3 Composition / information on ingredients**

# Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
7697-37-2	0.1-2	nitric acid
Not Available	0.1	non-toxic metal nitrate
7732-18-5	>97	water
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

# **SECTION 4 First aid measures**

# Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area

# Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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#### Advice for firefighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
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Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic/ irritating fumes.</li> <li>May emit acrid smoke.</li> <li>Decomposition may produce toxic fumes of: nitrogen oxides (NOx)</li> </ul>
HAZCHEM	Not Applicable

# **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

See section 8

**Environmental precautions** 

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# SECTION 7 Handling and storage

Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

Suitable container	<ul> <li>Glass container is suitable for laboratory quantities</li> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

# **SECTION 8 Exposure controls / personal protection**

#### **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	nitric acid	Nitric acid	2 ppm / 5.2 mg/m3	10 mg/m3 / 4 ppm	Not Available	Not Available
Emergency Limits						
Ingredient	TEEL-1		TEEL-2		TEEL-3	
nitric acid	Not Available		Not Available		Not Available	
Ingredient	Original IDLH			Revised IDLH		

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# Rowe Scientific ICP/AAS nontoxic metal standards in 0.1-2% nitric acid

Ingredient	Original IDLH	Revised IDLH
nitric acid	25 ppm	Not Available
water	Not Available	Not Available

# MATERIAL DATA

Exposure controls

Appropriate engineering controls	General exhaust is adequate under normal operating conditions.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>Eyewash unit.</li> </ul>

# Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

Rowe Scientific ICP/AAS nontoxic metal standards in 0.1-2% nitric acid

Material	СРІ
BUTYL	А
NEOPRENE	А
HYPALON	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

# **SECTION 9** Physical and chemical properties

# Information on basic physical and chemical properties

Appearance	Colourless acidic liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.0 approx.
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable

# **Respiratory protection**

Type E-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	E-AUS P2	-	E-PAPR-AUS / Class 1 P2
up to 50 x ES	-	E-AUS / Class 1 P2	-
up to 100 x ES	-	E-2 P2	E-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100 approx.	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Applicable

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product		
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.		
Chronic	Long-term exposure to the product is not thought to produce models); nevertheless exposure by all routes should be mining the structure of the	chronic effects adverse to health (as classified by EC Directives using animal mised as a matter of course.	
Rowe Scientific ICP/AAS	τοχιςιτγ	IRRITATION	
nontoxic metal standards in 0.1-2% nitric acid	Not Available	Not Available	
	τοχιςιτγ	IRRITATION	
nitric acid	Inhalation(Rat) LC50; 0.13 mg/L4h <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>	
	τοχιςιτγ	IRRITATION	
water	Oral (Rat) LD50; >90000 mg/kg <sup>[2]</sup>	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effe	es - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise act of chemical Substances	
NITRIC ACID	known as reactive airways dysfunction syndrome (RADS) wh	irs after exposure to the material ends. This may be due to a non-allergic condition nich can occur after exposure to high levels of highly irritating compound. Main s airways disease in a non-atopic individual, with sudden onset of persistent	

	lymphocytic inflammation, without eosinophilia. RADS ( the concentration of and duration of exposure to the irri result of exposure due to high concentrations of irritatin disorder is characterized by difficulty breathing, cough is for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest Cells from the respiratory tract have not been examined exposure to inhaled acidic mists, just as mucous plays acid. In considering whether pH itself induces genotoxic stomach, in which gastric juice may be at pH 1-2 under urine can range from <5 to > 7 and normally averages only a portion of the cell surface is subjected to the adv readily than in vitro. The material may produce severe irritation to the eye of produce conjunctivitis. The material may produce respiratory tract irritation. Sy breath, headache, nausea, and a burning sensation. Unlike most organs, the lung can respond to a chemica the damage (inflammation of the lungs may be a conse	are bronchial hyperreactivity on methac (or asthma) following an irritating inhal itating substance. On the other hand, i ag substance (often particles) and is co and mucus production. that eukaryotic cells are susceptible to d in this respect. Mucous secretion ma an important role in protecting the gas c events in vivo in the respiratory syste fasting or nocturnal conditions, and w 6.2. Furthermore, exposures to low ph- verse conditions, so that perturbation of ausing pronounced inflammation. Rep ymptoms of pulmonary irritation may in al insult or a chemical agent, by first re iquence).	ndustrial bronchitis is a disorder that occurs as a impletely reversible after exposure ceases. The or genetic damage when the pH falls to about 6.5. by protect the cells of the airways from direct tric epithelium from its auto-secreted hydrochloric erm, comparison should be made with the human ith the human urinary bladder, in which the pH of l in vivo differ from exposures <i>in vitro</i> in that, <i>in vivo</i> , f intracellular homeostasis may be maintained more eated or prolonged exposure to irritants may clude coughing, wheezing, laryngitis, shortness of
	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin rednes Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated est	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m s (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati	ed breathing difficulties. ay produce a contact dermatitis (nonallergic). This nis. Iular oedema of the epidermis. Prolonged contact is
WATER	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin rednes Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated ex No significant acute toxicological data identified in litera	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m s (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati ature search.	in an impairment of gas exchange, the primary and breathing difficulties. ay produce a contact dermatitis (nonallergic). This his. Ilular oedema of the epidermis. Prolonged contact is on.
Acute Toxicity	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin rednes Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated ex No significant acute toxicological data identified in litera	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m is (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati ature search. Carcinogenicity	in an impairment of gas exchange, the primary and breathing difficulties. ay produce a contact dermatitis (nonallergic). This his. Ilular oedema of the epidermis. Prolonged contact is on.
Acute Toxicity Skin Irritation/Corrosion	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin redness Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated ex No significant acute toxicological data identified in litera	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m is (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati ature search. Carcinogenicity Reproductivity	in an impairment of gas exchange, the primary and breathing difficulties. ay produce a contact dermatitis (nonallergic). This his. Ilular oedema of the epidermis. Prolonged contact is on.
Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin rednes Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated ex No significant acute toxicological data identified in litera	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m is (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati ature search. Carcinogenicity	in an impairment of gas exchange, the primary and breathing difficulties. ay produce a contact dermatitis (nonallergic). This his. Ilular oedema of the epidermis. Prolonged contact is on.
Acute Toxicity Skin Irritation/Corrosion	to the lungs (fibrosis for example) when activated by ha function of the lungs. Therefore prolonged exposure to The material may produce severe skin irritation after pr form of dermatitis is often characterised by skin redness Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated ex No significant acute toxicological data identified in litera	azardous chemicals. Often, this results respiratory irritants may cause sustair olonged or repeated exposure, and m is (erythema) thickening of the epiderm spongy layer (spongiosis) and intracel xposures may produce severe ulcerati ature search. Carcinogenicity Reproductivity	in an impairment of gas exchange, the primary and breathing difficulties. ay produce a contact dermatitis (nonallergic). This his. Ilular oedema of the epidermis. Prolonged contact is on.

Agend: X - Data either not available or does not fill the criteria for classification
 - Data available to make classification

# **SECTION 12 Ecological information**

# Toxicity

Rowe Scientific ICP/AAS	Endpoint	Test Duration (hr)	Species	Value	Source
nontoxic metal standards in 0.1-2% nitric acid	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Crustacea	39mg/l	2
nitric acid	EC50	48h	Crustacea	490mg/l	2
	LC50	96h	Fish	102.24mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available

- Bioconcentration Data 8. Vendor Data

#### DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
water	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
	No Data available for all ingredients	

# Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

# **SECTION 13 Disposal considerations**

Waste treatment methods	
Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Treat and neutralise at an effluent treatment plant.</li> <li>Use soda ash or slaked lime to neutralise.</li> <li>Recycle containers, otherwise dispose of in an authorised landfill.</li> </ul>

#### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### Transport in bulk according to Annex II of MARPOL and the IBC code

Product name	Pollution Category	Ship Type
Nitric acid (less than 70%)	Y	2

#### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
nitric acid	Not Available
water	Not Available

#### Transport in bulk in accordance with the ICG Code

Product name	Ship Type
nitric acid	Not Available
water	Not Available

# **SECTION 15 Regulatory information**

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

#### nitric acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

# Australian Inventory of Industrial Chemicals (AIIC)

water is found on the following regulatory lists

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (nitric acid; water)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	11/07/2022	
Initial Date	15/10/2007	
SDS Version Summary		
SDS Version Summary Version	Date of Update	Sections Updated

#### Other information

17.1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

Classification

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancel ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances **TSCA: Toxic Substances Control Act** TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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