Safety Data Sheet

According to CFR1910/1200 and GHS Rev.10
Effective Date: 25/09/2024

Product Name: Nitric acid 65-70%

Classified for physical and health hazards under GHS.

SECTION 1: IDENTIFICATION OF SUBSTANCE AND OF THE SUPPLIER

Product Name	Nitric acid 65-70%
Other Names	not applicable
CAS No.	7697-37-2
Product Code & Size	20LN65, 20 litre
Recommended Uses	Industrial Water treatment
Company Name	Viva Blu Chemical Suppliers
Address	49 Victoria Street, Windsor, QLD, 4030
Phone	+61 402 981 808
Emergency Contact Number	+61 402 981 808 General Information
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre **Australia 131 126** or **New Zealand 0800 764 766**

SECTION 2: HAZARDS IDENTIFICATION

Classification Hazardous chemical according to GHS (Globally Harmonized System)

Hazard Category
Category 3 Oxidising liquids
Category 1 Corrosive to metals

Category 3 Acute toxicity (inhalation)
Category 1A Skin corrosion/ irritation
Category 1 Serious eye damage/ irritation
Category 2 Specific target organ toxicity (repeated exposure)



Signal word: Danger

Hazard Statements
H272 May intensify fire, oxidizer
H290 May be corrosive to metals
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H331 Toxic if inhaled
H373 May causes damage to organs through prolonged or repeated exposure

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P220 Keep away from clothing and other combustible materials
P233 Keep container tightly closed
P234 Keep only in original packaging
P260 Do not breath dust/ fume/ gas/ mist/ vapours/ spray
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P264 + P265 Wash hands (and…) thoroughly after handling. Do not touch eyes
P271 Use only outdoors or with adequate ventilation
P280 Wear protective gloves, clothing and eye and face protection
P321 Specific treatment. Refer to supplemental first aid instruction
P301+ P330+ P331 If swallowed: Rinse mouth. Do not induce vomiting
P302+ P361+ P354 If on skin: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
P304+ P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+ P354+P338 If in eyes: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316 Get emergency medical help immediately
P363 Wash contaminated clothing before reuse
P370+ P378 In case of fire: Use water for extinction
P390 Absorb spillage to prevent material damage

P403 Store in well- ventilated place
P405 Store locked up
P406 Store in corrosive resistant container with a resistant inner liner
P501 Dispose pf contents/ container in accordance with local/ regional/ national/ international regulations.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions
Nitric acid	7697-37-2	65-70%
Water	7732-18-5	Balance

SECTION 4: FIRST AID MEASURES

Swallowed	Rinse mouth with water. Do NOT induce vomiting. Immediately seek medical attention for advice. If vomiting, ensure free airway and prevent aspiration. Keep the person calm. Follow DRSABCD if necessary.
Eye	Rinse with plenty of water at least for 15 minutes. Remove contact lenses if present and easy to do. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Skin	Remove contaminated clothing and shoes and wash before re-use. Wash affected areas with plenty of water. Immediately seek medical attention for advice. Follow DRSABCD if necessary.
Inhaled	Move exposed individual to a comfortable breathing position and exposure to fresh air. Loosen clothing for better breathing. Follow DRSABCD if necessary.
Advice to Doctor	Corrosive effects on the skin and eyes **may be delayed** after exposure. Treat symptomatically based on individual reactions of patient and judgement of doctor. Provide always SDS.

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Most important symptoms and effect, both acute and delayed

Irritation, burns, shortness of breath and more.

Indication of any immediate medical attention and special treatment needed
If seeking medical attention, provide SDS document to physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Conditions	Non combustible, however may intensify fire (oxidizer).
Extinguishing Media	Use carbon dioxide (CO2), dry chemical, foam, dry sand or water spray.
General information	Water spray may be used to knock down the gases/ fumes/ mist/ vapours.
Hazards Products of Combustion	Fire/ heat can develop toxic, irritating and or corrosive gases like nitrogen oxides. **Oxidizer!** Can accelerate fire and explosion.

Special Protective Precautions & Equipment for Fire fighters' Protective equipment

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment.

Ensure to contain runoff from dilution water and or fire control due to be may toxic or corrosive and or can cause explosion.

Hachem Code 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and Emergency Procedures

Always wear protective equipment when handling the substance and ensure adequate ventilation. Kepp unauthorized people away. Avoid breathing fumes and contact with eyes, skin and clothing.

Eliminate all sources of ignition. Do not allow product to reach drains, sewers, or waterways. If the product does enter a waterway, advise the Environment Protection Authority or your local Waste Management. Do not touch damaged containers or spilled substances. Keep people away from exposure area at least 250m.

Environmental precautions Prevent from reaching drains, sewers, or waterways. Collect contaminated soil for characterization per section 13.

Methods and Materials for Containment and Clean Up

Reaction with water can increase the concentration of toxic gases in air due to heat development.

Wear protective clothing. Clean up spill immediately by covering with dry earth and or non-combustible material followed by plastic sheet to minimize spreading and put into a suitable, labeled waste container and hold for safe disposal. Spray water to knock down the fumes. Wash spill area with plenty of water after removing the spill. If necessary, use trained response staff/contractor.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Ensure an eye and safety shower are available and ready for use in case of an emergency. To avoid contact with eyes, skin and clothing, wear protective clothing, safety glasses and or face protection. Do not breathe fumes. Follow good hygiene procedures when handling substances.
Do not eat, drink, smoke or use personal products when handling substances. Use only in well-ventilated areas. Collect spillage immediately.

Conditions for Safe Storage including and incompatibilities

Store in a cool (out of direct sunlight), well-ventilated and dry place. Keep container tightly closed and in its original packaging. Keep away from heat and sources of ignition. Avoid physical damage to containers. Store locked up.

Container Type Store in original packaging as approved by manufacturer.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters

Component: Nitric acid
Safe Work Australia Exposure Standard: TWA 2ppm, STEL 4ppm
Immediately dangerous to life or health concentration: 25ppm
Decomposition product: Nitrogen dioxide
Safe Work Australia Exposure Standard: TWA 3ppm, STEL 5ppm

Appropriate Engineering Controls Preferent use local exhaust ventilation to minimise the exposures and apply technical measures to comply with exposure limits.

Respiratory Protection Use suitable respiratory protective equipment when inadequate ventilation or where risk assessment shows air-purifying respirators are appropriate.

Protection of skin Appropriate personal equipment is required like protective overalls, safety footwear and gloves.

Eye Protection Safety Glasses and face shield have to be worn at all times.

Work hygiene practices Do not eat, drink or smoke when using the substance. Handle in accordance with good industrial hygiene and safety practice. Wash hands and exposed area after handling.

Precautions Do not allow wash water from cleaning or process equipment to enter drains. Water treatment may be required before disposal.
Follow relevant regulations in accordance with poisonous materials.

Biological Values No information available

Exposure Limits No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to pale yellow liquid
Odor	Sharp, irritating
Vapor Pressure	No data available
Vapor Density	No data available
Boiling Point	121°C
Melting Point	-41°C
Solubilities	Miscible with water
Specific Gravity	1.41
Flash Point	No data available
pH	1
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Ignition Temperature	No data available
Specific Heat Value	No data available
Viscosity, kinematic	No data available

Volatile Organic Compounds	No data available
Evaporation Rate	No data available
Viscosity	No data available
Percent Volatile	No data available
Decomposition Temperature	No data available
Saturated Vapor Concentration	No data available
Additional Characteristics	No data available
Flame Propagation/Burning rate of Solid Material	No data available
Fast or intensely burning characteristics	Oxidizer! This substance will accelerate burning when involved in a fire and may decompose explosively.
Reactions that release flammable Gases	Fire or heat will cause toxic, irritating and or corrosive gases.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability Stable at recommended storage conditions.

Incompatible Materials Combustible material, organic material, metals, alkalis, reducing agents and chlorates.

Hazardous Decomposition products and possibility of hazardous reactions

Fire or heat will cause toxic, irritating and or corrosive gases. Contact to metal can cause flammable hydrogen gas.

Hazardous Polymerisation Will not occur.

Conditions to avoid Keep away from heat and other ignition sources! Avoid exposure to air and light.

SECTION 11: TOXICOLOGICAL INFORMATION

General information:

Eye Irritation	Corrosive to eyes. Causes serious eye damage.
Skin Corrosion/ Irritation	Corrosive to skin. Causes severe skin burns.
Acute Toxicity	Corrosive on ingestion, toxic if inhaled, oral exposure can cause

	severe abdominal pain and more. Inhalation hazard is increased at higher temperature.
Single Target Organ Toxicity (STOT) single expose	Corrosive to the respiratory tract.
Single Target Organ Toxicity (STOT) repeat expose	Chronic inhalation exposure to substances can cause respiratory irritation, leading to bronchitis and more.
Carcinogenicity	No information available
Gem Mutagenicity	No information available
Reproductive Toxicity	No information available
Aspiration toxicity	No information available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Environmental fate Prevent entry into drain/ water system

Persistence/ degradability No information available

Mobility in Soil No information available

Bioaccumulation Potential No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Disposal in accordance with regional, national and international regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number 2031
Shipping Name Nitric acid with at least 65%, but not more than 70% Nitric acid
Dangerous Goods Class 8 Corrosive substances
Subsidiary Risk 5.1 Oxidising substances
Pack Group II
Hazchem Code 2R
EPG 40 toxic and or corrosive substances, Non-combustible,Water reactive
EMS F-A, S-Q

Special precautions for user Refer to SDS

SECTION 15: REGULATORY INFORMATION

Poisons Schedule (AUST) Schedule 6

SECTION 16: CONTACT INFORMATION

Any advice, recommendation, information, assistance, or service provided by Viva Blu in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer of any liability on the part of Viva Blu. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

Craig Mair
Managing Director

EFFECTIVE DATE: 25/09/2024
LAST UPDATED: 25/09/2024
REVIEW DATE: 25/09/2029