SAFETY DATA SHEET
EZIPUMP ANE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier
Product name: EZIPUMP ANE (1000, 1500, 2000, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500)
Synonym(s): AMMONIUM NITRATE EMULSION • ANE • EZIPUMP ANE (1000, 1500, 2000, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500)

1.2 Uses and uses advised against
Use(s): EMULSION PHASE INGREDIENT FOR EXPLOSIVES • MINING EXPLOSIVE

1.3 Details of the supplier of the product
Supplier name: JOHNSON HI-TECH (AUSTRALIA) PTY LTD
Address: Level 1, 63 Abernethy Road, Belmont WA 6104 AUSTRALIA
Telephone: +61 8 6250 8200
Fax: +61 8 6250 8299
Email: info@johnex.com.au
Website: www.johnex.com.au

1.4 Emergency telephone number(s)
Emergency: 1800 014 100

SDS Date: 11 Jun 2026

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS
GHS classification(s): Oxidizing Liquids: Category 3
Serious Eye Damage / Eye Irritation: Category 2A
Carcinogenicity: Category 2

2.2 Label elements
Signal word: WARNING
Pictogram(s):

Hazard statement(s)
H272 May intensify fire; oxidizer.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

Prevention statement(s)
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220 Keep/Store away from clothing/incompatible materials/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles/ incompatible materials.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/ face protection.

Response statement(s)
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice / attention.
P370 + P378 In case of fire: Use appropriate media for extinction.

Storage statement(s)
P405 Store locked up.

Disposal statement(s)
P501 Dispose of contents/container in accrordance with relevant regulations.

2.3 Other hazards
No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
AMMONIUM NITRATE	6484-52-2	229-347-8	48 to 78%
CALCIUM NITRATE	13780-06-8	237-424-2	0 to 26%
WATER	7732-18-15	231-791-2	9 to 23%
OILS & HYDROCARBONS	68334-30-5	269-822-7	0 to 10%
SODIUM NITRATE	7631-99-4	231-554-3	0 to 13%
THIOUREA	62-56-6	200-543-5	<1%
ACETIC/CITRIC ACID	-	-	<1%
pH BUFFERS	-	-	<1%
UREA	57-13-6	200-315-5	0 to 8%
EMULSIFIER(S)	-	-	1 to 3%
SPC	7791-07-3	231-511-9	0 to 5%
CRYSTAL STABILISERS	10124-56-8	233-343-1	<1%

4. FIRST AID MEASURES

4.1 Description of first aid measures
Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Urgent

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hospital treatment is likely to be needed. If swallowed, do not induce vomiting.

First aid facilities Eye wash facilities should be available.

4.2 Most important symptoms and effects, both acute and delayed
Over exposure may result in methaemoglobinemia, where the blood's oxygen-carrying capacity is reduced.

4.3 Immediate medical attention and special treatment needed
Treat as for nitrate overexposure (methemoglobinemia).

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media
Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture
Non flammable. In fire situation, water will evaporate & there is some potential for explosion (at high temperature and pressure). May evolve toxic gases (ammonium nitrate, nitrogen oxides) when heated to decomposition.

5.3 Advice for firefighters
Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard.
Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code
1Y

1	Coarse Water Spray.
Y	Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions
Prevent product from entering drains and waterways.

6.3 Methods of cleaning up
Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

6.4 Reference to other sections
See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation.
Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well ventilated area, preferably outdoor or detached, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end use(s)
No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters
Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Diesel fuel (ACGIH)	SWA (AUS)	--	100	--	--

Biological limits
No biological limit values have been entered for this product.

8.2 Exposure controls
Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

Eye / Face	Full Face Shield.
Hands	Wear PVC or rubber gloves.
Body	Wear coveralls.
Respiratory	At high vapour levels, wear an Air-line respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	VISCOUS CREAM COLOURED LIQUID
Odour	FUEL OIL OR KEROSENE ODOUR
Flammability	EXPLOSIVE
Flash point	NOT AVAILABLE
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	< 5
Vapour density	NOT AVAILABLE
Specific gravity	1.30 to 1.46
Solubility (water)	INSOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	40,000 cP to 70,000 cP
Explosive properties	NOT AVAILABLE
Oxidising properties	OXIDISING LIQUID
Odour threshold	NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity
Powerful oxidising agent.

10.2 Chemical stability
Powerful oxidising agent. Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions
Polymerization will not occur.

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10.4 Conditions to avoid
Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials
Oxidising agent. Incompatible with combustible materials, reducing agents (e.g. sulphites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), metals, heat and ignition sources.

10.6 Hazardous decomposition products
May evolve nitrogen oxides (nitrous oxide) and ammonium nitrate when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
Information available for the product: Based on available data, the classification criteria are not met.

Information available for the ingredient(s):

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
AMMONIUM NITRATE	2217 mg/kg (rat)	-	-
FUELS, DIESEL (GASOIL - UNSPECIFIED)	7500 mg/kg (rat)	-	-
SODIUM ACETATE ANHYDROUS	3530 mg/kg (rat)	-	> 30 g/m³/1 hour (rat)
THIOUREA	125 mg/kg (rat)	-	-

Skin Contact may result in irritation, redness, rash and dermatitis.
Eye Contact may result in irritation, lacrimation and redness.
Sensitisation Not classified as causing skin or respiratory sensitisation.
Mutagenicity Not classified as a mutagen.
Carcinogenicity Diesel fuels, distillate (light) is not classifiable as to its carcinogenicity to humans (IARC Group 3).
Reproductive Not classified as a reproductive toxin.
STOT – single exposure Over exposure may result in irritation of the nose and throat, with coughing.
STOT – repeated exposure Not classified as causing organ damage from repeated exposure.
Aspiration Not classified as causing aspiration.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No information provided.

12.2 Persistence and degradability
No information provided.

12.3 Bioaccumulative potential
No information provided.

12.4 Mobility in soil
No information provided.

12.5 Other adverse effects
Ammonium nitrate is a nutrient in water. Spills can cause massive algal blooms in static waters and affect local species population balance in the aquatic environment. If water is used to disperse ammonium nitrate spilled on soil, the solution produced can end up in the groundwater. Ammonium nitrate will be taken up by bacteria. Nitrate is more persistent in water than the ammonium ion.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	3375	3375	PROH
14.2 Proper Shipping Name	AMMONIUM NITRATE EMULSION	AMMONIUM NITRATE EMULSION	Air transport PROHIBITED under the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air in passenger and cargo aircraft.
14.3 Transport Hazard Class	5.1	5.1	None Allocated
14.4 Packing Group	II	II	None Allocated

14.5 Environmental hazards
No information provided

14.6 Special precautions for user
Hazchem code 1Y
GTEPG REFER
EMS F-H, S-Q

Other Information
AIR TRANSPORT PROHIBITED under the International Air Transport

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Association (IATA) Dangerous Goods Regulations for transport by air in passenger aircraft and cargo aircraft.

15. REGULATORY INFORMATION

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

Poison schedule	Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].
Hazard codes	Carc. Carcinogen E Explosive Xi Irritant
Risk phrases	R2 Risk of explosion by shock, friction, fire or other sources of ignition. R36 Irritating to eyes. R40 Limited evidence of a carcinogenic effect.
Safety phrases	S34 Avoid shock and friction. S35 This material and its container must be disposed of in a safe way.
Inventory listing(s)	**AUSTRALIA: AICS (Australian Inventory of Chemical Substances)** All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

EXPLOSIVES & BLASTING AGENTS: Refer to Local State and Federal legislation that specifically relates to the use of Explosives. Users of products described in this ChemAlert Report are advised to ensure familiarity and compliance with the appropriate legal requirements (e.g. Regulations) prior to the use of this product. Where any further information is required, users may contact their local authority in Explosives and Dangerous Goods.

EXPLOSIONS: Fires involving explosives or explosive mixtures may undergo further explosions and rapid propagation. Police and emergency personnel should be notified immediately. Evacuate individuals to a safe sheltered area at least 800 metres away. If possible remove vehicles and further heat and ignition sources from the area. Do not return to areas until at least one hour after fire and explosions have ceased.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m^3	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

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