Date of issue/ Date of revision 30.08.2022 Date of previous issue 27.04.2021

Version 1.1



# SAFETY DATA SHEET

Pivot 22, PIP-60 or Ammonium Nitrate Solution 60%

# **Section 1. Identification**

**Product identifier** Pivot 22, PIP-60 or Ammonium Nitrate Solution 60%

**Product type** Liquid **Product code** PA07VL

Uses

Area of application Industrial applications, Professional applications

**Supplier** 

Supplier's details YARA PILBARA FERTILISERS PTY LTD

Address

Street Eastpoint Plaza level 10, 233 Adelaide Terrace

Postal code 6000 Perth City Country Australia

Telephone number +61 8 9183 4000 Fax no. +61 8 9185 6776

e-mail address of person responsible for this SDS

Info.yara.pilbara@yara.com

**Emergency telephone number** 

Australia: 1300 927 200

(with hours of operation) Intl: +61 2801 44558 / +44 (0) 1235 239 670

(24 HRS)

### Section 1. National advisory body/Poison Center

Poisons Information Centre Name

Telephone number 131126

Hours of operation 24 hours, within Australia only

# Section 2. Hazard(s) identification

Classification of the SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

substance or mixture.

#### **GHS label elements**

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WARNING Signal word

**Hazard statements** H319 Causes serious eye irritation.

**Precautionary statements** 

P280-a Prevention Wear eye protection.

> Wash hands thoroughly after handling. P264-a

IF IN EYES: P305 Response

> P351 Rinse cautiously with water for several

> > minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 If eye irritation persists: P313 Get medical attention.

Supplemental label elements Not applicable.

Other hazards which do not

result in classification

None known.

Additional information None.

# Section 3. Composition and ingredient information

Substance/mixture	:	Mixture		
Ingredient name			CAS number	% (w/w)
ammonium nitrate			6484-52-2	>= 50 - <= 65

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact Rinse with plenty of running water. Check for and remove any

contact lenses. If irritation persists, get medical attention.

Inhalation Avoid inhalation of vapor, spray or mist. If inhaled, remove to

fresh air.

Skin contact Wash with soap and water. Get medical attention if irritation

develops.

Ingestion Wash out mouth with water. If material has been swallowed

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and the exposed person is conscious, give small quantities of water to drink.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eve contact** Causes serious eye irritation.

Inhalation Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Skin contact No known significant effects or critical hazards.

Ingestion Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

Adverse symptoms may include the following: pain or irritation, Eye contact

watering, redness

Inhalation No specific data. No specific data. Skin contact No specific data. Ingestion

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist

> immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to

be kept under medical surveillance for 48 hours.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without

suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

for fire-fighters

**Hazardous thermal** 

decomposition products

Use an extinguishing agent suitable for the surrounding fire.

None identified.

In a fire or if heated, a pressure increase will occur and the

container may burst.

Decomposition products may include the following materials: nitrogen oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials.. In case of inhalation of

decomposition products in a fire, symptoms may be delayed.

Special protective actions for fire-fighters

Special protective equipment

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken

involving any personal risk or without suitable training.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

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

No action shall be taken involving any personal risk or without For non-emergency personnel

Date of issue: 30.08.2022 Page:3/13 suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

#### For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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# Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

# Section 8. Exposure controls and personal protection

#### **Control parameters**

Occupational exposure limits

None.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker

Environmental exposure controls

exposure to airborne contaminants.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to

acceptable levels.

### **Individual protection measures**

Hygiene measures

: A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the

exact composition of the glove material.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being

performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection**: In case of inadequate ventilation wear respiratory protection.

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Personal protective equipment:

(Pictograms)





# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### **Appearance**

**Physical state** Liquid Color Colorless., Odor Not determined. Odor threshold Not determined.

pН

Melting point/freezing point Not determined. Boiling point, initial boiling Not applicable. point, and boiling range

Flash point Not applicable.

**Evaporation rate** Not determined. **Flammability** Not determined. Lower and upper explosion Lower: Not determined.

limit/flammability limit **Upper:** Not determined. Vapor pressure Not determined. Relative density Not determined. Solubility(ies) Not determined.

Partition coefficient: noctanol/water

Auto-ignition temperature Not determined. **Decomposition temperature** Not determined.

**Viscosity Dynamic:** Not determined. Kinematic: Not determined.

**Explosive properties** Not determined. Oxidizing properties Not determined.

Particle characteristics

Not determined. Median particle size

# Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this

Not determined.

product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions

reactions will not occur.

Date of issue: 30.08.2022 Page:6/13 Conditions to avoid : Avoid contamination by any source including metals, dust and

organic materials.

Incompatible materials : alkalis, combustible materials, reducing materials, organic

materials, Acids

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Method	Species	Result	Exposure
ammonium nitrate				
	OECD 401	Rat	2,950 mg/kg	Not applicable.
	LD50 Oral			
	OECD 402	Rat	> 5,000 mg/kg	Not applicable.
	LD50 Dermal			

**Conclusion/Summary**: No known significant effects or critical hazards.

### Irritation/Corrosion

Product/ingredient	Method	Species	Result	Exposure
name				
ammonium nitrate				
	OECD 405	Rabbit	Irritant	-
	Eyes			

#### **Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.

**Eyes** : Causes serious eye irritation.

**Respiratory** : No known significant effects or critical hazards.

#### **Sensitization**

Product/ingredient name	Method	Species	Result
ammonium nitrate			
	OECD 429 Skin	Mouse	Not sensitizing

#### Conclusion/Summary

Skin: No known significant effects or critical hazards.Respiratory: No known significant effects or critical hazards.

### **Mutagenicity**

Product/ingredient name	Method	Test detail	Result
ammonium nitrate			

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OECD 473	Mammalian Toxicity - Genotoxicity - In vitro Mammalian Chromosome Aberration Test or Mammalian Bone Marrow Chromosomal Abberation Test or Mammalian Erythrocyte Micronucleus Test In vitro	Negative
OECD 471	Bacteria In vitro	Negative

**Conclusion/Summary**: No known significant effects or critical hazards.

**Carcinogenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

#### Reproductive toxicity

Product/ingredient name	Method	Species	Result	Exposure
ammonium nitrate				
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental-	28 days
			Negative NOAEL	
			> 1500 mg/kg bw/day	

**Conclusion/Summary**: No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely

routes of exposure:

Not available.

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

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**Eye contact**: Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

#### Potential chronic health effects

Product/ingredient name	Method	Species	Result	Exposure
ammonium nitrate				
	OECD 422 Chronic NOAEL Oral	Rat	256 mg/kg	28 days
	OECD 412 Sub-acute NOEC Inhalation	Rat	> 185 mg/m³	2 weeks 5 hours per day

**Carcinogenicity**: No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: No known significant effects or critical hazards.

**Effects on or via lactation** : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### **Numerical measures of toxicity**

### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Pivot 22, PIP-60 or Ammonium Nitrate Solution 60%	2,950 mg/kg	N/A	N/A	N/A	N/A
ammonium nitrate	2,950 mg/kg	N/A	N/A	N/A	N/A

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# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredien t name	Method	Species	Result	Exposure
ammonium nitrate				
	Acute LC50 Fresh water	Fish	447 mg/l	48 h
	Acute EC50 Fresh water	Daphnia	490 mg/l	48 h
	Acute EC50 Salt water	Algae	1,700 mg/l	10 d

**Conclusion/Summary**: No known significant effects or critical hazards.

Persistence and degradability

**Conclusion/Summary**: No known significant effects or critical hazards.

**Bioaccumulative potential** 

**Conclusion/Summary**: No known significant effects or critical hazards.

**Mobility in soil** 

Soil/water partition coefficient (KOC)

: Not available.

Not available.

Mobility :

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

### **Product**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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# Section 14. Transport information

14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	

Regulation: ADR/RID	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Marine pollutant	: No.

Regulation: IATA		
14.1 UN number	Not regulated.	
14.2 UN proper shipping name	Not applicable.	
14.3 Transport hazard class(es)	Not applicable.	
14.4 Packing group	Not applicable.	
14.5 Environmental hazards	No.	
Additional information		
Marine pollutant : No.		

# 14.6 Special precautions for user

: Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

**IMSBC** : Not applicable.

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Transport in bulk according to IMO instruments

Proper shipping name

: Ammonium nitrate solution

(93% or less)

# **Section 15. Regulatory information**

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### **Inventory list**

Philippines inventory (PICCS): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

**United States inventory (TSCA 8b):** All components are active or exempted. **EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

**Canada:** All components are listed or exempted. **Viet Nam:** All components are listed or exempted.

# Section 16. Any other relevant information

**Key to abbreviations** : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

bw = Body weight

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/ EYE	Calculation method
IRRITATION - Category 2A	

## **Key data sources** : EU REACH ECHA/IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.

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Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

### **History**

Date of printing: 19.09.2022Date of issue/Date of revision: 30.08.2022Date of previous issue: 27.04.2021

Version : 1.1

**Prepared by** : Product Stewardship and Compliance (PSC).

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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