Based on: GHS (rev 6) (2015). - Australia

Date of issue/ Date of revision Date of previous issue Version 27.04.2021 00.00.0000 1.0

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# SAFETY DATA SHEET

#### PIP-60 or Ammonium Nitrate Solution 60%

Section 1. Identification		
Product identifier Product type Product code	:	PIP-60 or Ammonium Nitrate Solution 60% Liquid PA07VL
<u>Uses</u> Area of application	:	Industrial applications, Professional applications
<u>Supplier</u> Supplier's details	:	YARA PILBARA FERTILISERS PTY LTD
<u>Address</u> Street Postal code City Country	:	Level 5, 182 St Georges Terrace 6000 Perth Australia
Telephone number Fax no. e-mail address of person responsible for this SDS Emergency telephone number (with hours of operation)	:	+61 8 9183 4000 +61 8 9185 6776 Info.yara.pilbara@yara.com Australia: 1300 927 200 Intl: +61 2801 44558 / +44 (0) 1235 239 670 (24 HRS)
Section 1. National advisory body/Poison Center		
Name	:	Poisons Information Centre

## Section 2. Hazard(s) identification

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Classification of the substance or mixture.

**Telephone number** 

Hours of operation

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

GHS label elements

Hazard pictograms



131126

24 hours, within Australia only

Signal word	:	WARNING	
Hazard statements	:	H319	Causes serious eye irritation.
Precautionary statements			
Prevention	:	P280-a P264-a	Wear eye protection. Wash hands thoroughly after handling.
Response	:	P305	IF IN EYES:
		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 applica	ble.
Other hazards which do not result in classification	:	None know	'n.
Additional information	:	None.	

### Section 3. Composition and ingredient information

Substance/mixture	1	Mixture
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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 as hazardous to health or the environment 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 and the exposed person is conscious, give small quantities of water to drink.

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

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Folential acute health enects		
Eye contact Inhalation	:	Causes serious eye irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	Irritating to mouth, throat and stomach.
Over-exposure signs/symptoms	<u>s</u>	
Eye contact	1	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	10	No specific data.
Skin contact	10	No specific data.
Ingestion	10	No specific data.
Indication of immediate medical	atter	ntion 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	1	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

#### Potential acute health effects

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Extinguishing mean		
Suitable extinguishing media Unsuitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire. None identified.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	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 for fire-fighters	:	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

For non-emergency personnel	:	No action shall be taken involving any personal risk or without 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
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		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 contain	me	<u>nt and cleaning up</u>
		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 Advice on general	:	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. Eating, drinking and smoking should be prohibited in areas
occupational hygiene		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.
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
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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

<u>Control parameters</u> <u>Occupational exposure limits</u>	:	None.
Appropriate engineering controls Environmental exposure controls	:	Good general ventilation should be sufficient to control worker 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	1	In case of inadequate ventilation wear respiratory protection.
Personal protective equipment (Pictograms)	:	

## Section 9. Physical and chemical properties

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<u>Appearance</u>		
Physical state	:	Liquid
Color	:	Colorless.,
Odor	1	Not determined.
Odor threshold	1	Not determined.
рН	1	6
Melting/freezing point	1	Not determined.
Boiling/condensation point	1	Not determined.
Sublimation temperature	1	Not determined.
Flash point	1	Not determined.
Evaporation rate	1	Not determined.
Flammability (solid, gas)	1	Not determined.
Lower and upper explosive	1	Lower: Not determined.
(flammable) limits		Upper: Not determined.
Vapor pressure	1	Not determined.
Relative density	1	Not determined.
Solubility	1	Not determined.
Partition coefficient: n-	1	Not determined.
octanol/water		
Auto-ignition temperature	1	Not determined.
Decomposition temperature	1	Not determined.
Viscosity	1	Dynamic: Not determined.
-		Kinematic: Not determined.
Explosive properties	1	Not determined.
Oxidizing properties	1	Not determined.
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## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
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/ingredie	Method	Species	Result	Exposure	References
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nt name					
ammonium nitrate					
	OECD 401	Rat	2,950 mg/kg	Not	CSR
	LD50 Oral			applicable.	
	OECD 402	Rat	> 5,000 mg/kg	Not	
	LD50 Dermal			applicable.	

#### Conclusion/Summary

: No known significant effects or critical hazards.

#### Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium nitrate				I	1
	OECD 405 Eyes	Rabbit	Irritant	-	CSR

#### **Conclusion/Summary**

Skin	1	No known significant effects or critical hazards.
Eyes	:	Causes serious eye irritation.

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### Respiratory

#### **Sensitization**

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

#### Conclusion/Summary Skin

Respiratory

No known significant effects or critical hazards.

atory :

No known significant effects or critical hazards.

: No known significant effects or critical hazards.

#### **Mutagenicity**

Product/ingredient	Method	Test detail	Result	References
name				
ammonium nitrate				
	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	CSR
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	OECD 471	Bacteria In vitro	Negative	IUCLID
Conclusion/Summary	: No	known significant eff	ects or critical haza	ırds.

: 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	References
ammonium nitrate					
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL > 1500 mg/kg bw/day	28 days	CSR

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	1	Irritating to mouth, throat and stomach.
Symptoms related to the physic	al, c	hemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	1	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects a	and	also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.

#### Long term exposure

Potential immediate effects : Potential delayed effects :

Not available. Not available.

#### Potential chronic health effects

Product/ingredient name	Method	Species	Result	Exposure	References
ammonium nitrate					
	OECD 422 Chronic NOAEL Oral	Rat	256 mg/kg	28 days	CSR
	OECD 412 Sub-acute NOEC Inhalation	Rat	> 185 mg/m³	2 weeks 5 hours per day	CSR
Carcinogenicity	: N	o known signifi	cant effects or	critical hazard	5.
Mutagenicity	: N	o known signifi	cant effects or	critical hazard	S.
Fertility effects	: N	o known signifi	cant effects or	critical hazard	S.
Developmental effects	: N	o known signifi	cant effects or	critical hazard	S.
Effects on or via lactat	ion : N	o known signifi	cant effects or	critical hazard	S.

**Other effects** 

Eye contact

Inhalation Skin contact

Ingestion

### Over-exposure signs/symptoms

Adverse symptoms may include the following: pain or irritation,
watering, redness
No specific data.
No specific data.

No known significant effects or critical hazards.

No specific data.

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#### Numerical measures of toxicity

Acute toxicity estimates Not available.

### Section 12. Ecological information

#### **Toxicity**

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

#### Conclusion/Summary

No known significant effects or critical hazards.

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#### Persistence and degradability

Conclusion/Summary	:	No known significant effects or critical hazards.
Bioaccumulative potential		
Conclusion/Summary	:	No known significant effects or critical hazards.
<u>Mobility in soil</u> Soil/water partition coefficient (KOC) Mobility Other adverse effects	:	Not available. Not available. No known significant effects or critical hazards.

### Section 13. Disposal considerations

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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.

### Section 14. Transport information

Regulation: ADG				
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	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 <u>Marine pollutant</u>	: 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.		
Transport in bulk according to IMO instruments		Proper shipping name Ship type Pollution category		Ammonium nitrate solution (93% or less) 2 Z

### 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.

Japan inventory: All components are listed or exempted.

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

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: 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 = International Air Transport Association IBC = International Air Transport Association IBC = 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) SGG = Segregation Group
		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 IRRITATION - Category 2A		Calculation method	
Key data sources	Natior Dept. Memo Subst Spher	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. Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebe HAR 2P9, Canada.	
<u>History</u>			
Date of printing	: 03.05	2021	
Date of issue/Date of revision	: 27.04	2021	
Date of previous issue	: 00.00	0000	
Version	: 1.0		
Prepared by	: Yara	Chemical Compliance (YCC).	
Indicates information that has	s changed	rom previously issued version.	
Notice to reader			

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