# MSDS 0762 Date of Issue/re-issue: 29.01.2015

User declaration:- I have read and understood this Safety Data Sheet

Name:-	Signature	Date	
Nume.	Jighatare	Date	

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Company Name** 



0762

		ECP LTD PCP				
Address:		39 Woodside Ave, N	orthcote, Au	ckland , N	ew Zea	aland
Emergency Tel:	NZ 0800154666	<b>Tel</b> +64 9 480 4386		<b>FAX</b> +64	9 480	4385
Product	Ammoniun	n Persulfate		Code		07
0.0.0.11				1	•	

CAS#	HSNO#	UN #	DG Class/es	Packing group #
7727-54-0	HSR001311	n/a	n/a	n/a

Recomended use: Laboratory Investigations

2. Hazards Identification

#### 2.1 GHS Classification

Oxidizing liquids or solids (Category C) Acute toxicity, Oral (Category D) Acute toxicity, Dermal (Category D) Respiratory sensitisation (Category A) Skin sensitisation (Category B) Aquatic toxicity (Acute or Chronic) (Category D) 2.2 GHS Label elements, including precautionary statements



Pictogram

Hazard statement(s)

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H402 Harmful to aquatic life.

Precautionary statement(s)

Prevention

P210 Keep away from heat.

P220 Keep/Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

#### Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P330 Rinse mouth.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Other hazards - none

Hazard Classification Australia:

Classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

New Zealand:

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

5.1.1C Oxidising substances that are liquids or solids: low hazard

6.1D (Oral) - Substance that is acutely toxic

6.3A Substance that is irritating to the skin

6.4A Substance that is irritating to the eyes

6.5A Substance that is a respiratory sensitiser

6.5B Substance that is a contact sensitiser

6.9B (Repeated exposure) - Substance that is harmful to human target organs or systems

9.1D Substance that is slightly harmful to the aquatic environment or is otherwise designed for biocidal action

9.3C Substance that is harmful to terrestrial vertebrates

Hazard statement codes:

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure by ingestion or by inhalation .

H413 May cause long lasting harmful effects to aquatic life.

H433 Harmful to terrestrial vertebrates.

Precautionary statement codes - Prevention:

P102 Keep out of reach of children.

P103 Read label before use.

P104 Read Safety Data Sheet before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing//combustible materials.

P221 Take any precaution to avoid mixing with combustibles

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash Skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement codes - Response:

GENERAL

P101 If medical advice is needed, have product container or label at hand.

P314 Get medical advice/attention if you feel unwell.

INGESTION

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.

P331 Do NOT induce vomiting.

INHALATION

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

EYES

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.

SKIN

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Precautionary statement codes - Disposal:

Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations.

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Solid		
Name	CAS	Proportion
Ammonium persulphate	7727-54-0	100 %
	Solid <b>Name</b> Ammonium persulphate	Solid Name CAS Ammonium persulphate 7727-54-0

# 4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eyewash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

**5. FIRE FIGHTING MEASURES** 

Suitable Extinguishing Media	Carbon dioxide, dry chemical, foam, water fog or water mist.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including oxides of sulphur and oxides of nitrogen .
Specific Hazards	Oxidising substances that are liquids or solids: low hazard. Contact with combustible materials, heating or friction may cause fire or explosion.
Hazchem Code	1Z
Decomposition Temp.	120°C
Precautions in connection with Fire	Fight fire with large amounts of water from a safe distance. Fire-fighters should wear full fire fighting turn out gear (full Bunker Gear) and self contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. Water spray may be used to keep fire exposed containers cool. After a fire, wait until the material has cooled to room temperature before initiating clean-up activities. Fire fighting equipment should be thoroughly decontaminated after use. This product should be prevented from entering drains and watercourses.
Unsuitable Extinguishing Media	Do not use water jet.

# 6. ACCIDENTAL RELEASE MEASURES

EmergencyRemove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. DoProceduresnot allow contact with skin and eyes. Do not breathe mist/vapour. Dispose of waste

according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

### 7. HANDLING AND STORAGE

 Precautions for Safe
Handling
Use in a well ventilated area. Combustible materials are not recommended as absorbents. Do not use near welding or other ignition sources and avoid sparks. Do not smoke. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Wear appropriate personal protective equipment and clothing to prevent exposure. Maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe
Store in a cool, dry well-ventilated area away from foodstuffs, clothing, combustible and

Storage incompatible materials. Detached storage is preferred. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Keep away from heat and sources of ignition. Protect from contamination- Use only very clean containers and equipment free from traces of impurities. Keep only in original container. Never return unused product to original container. Do not reuse empty packaging to store other products. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom reference should be made to Australian Standard AS 2714-2008: The storage and handling of organic peroxides.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls, Personal Protection	Safe Work, Australia exposure standards: Substance TWA STEL Notice ppm mg/m <sup>3</sup> ppm mg/m <sup>3</sup> Ammonium persulphate - 0.01 (Peak Limitation) - New Zealand Workplace Exposure Standards (OSH): Substance TWA STEL Notice ppm mg/m <sup>3</sup> ppm mg/m <sup>3</sup> Ammonium persulphate (Not listed)					
	TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.					
National Exposure Standards	Name	STEL (mgm3	STEL ) (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Ammonium persulphate			0.01		Peak limitation
Biological Limit Values	No biological limits allocated.					

Engineering Controls	Use with good general ventilation. If dusts are produced, local exhaust ventilation should be used.
Respiratory Protection	Refer to relevant regulations for further information concerning respiratory protective requirements. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as butyl rubber, nitrile rubber or laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	White crystals
Odour	Slight odour
Decomposition Temperature	120°C
Melting Point	120°C (Decomposes)
Boiling Point	Not available
Solubility in Water	Soluble
Specific Gravity	1.980
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available

Odour Threshold	Not available
Viscosity	Refer to Section 9: Kinematic and Dynamic Viscosity
Colour	White
Flash Point	Not applicable
Flammability	Oxidising
Auto-Ignition Temperature	Not available
Kinematic Viscosity	Not available
Dynamic Viscosity	Not available
Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available

# **10. STABILITY AND REACTIVITY**

Stability and Reactivity	Refer to Section 10: Possibility of hazardous reactions
Chemical Stability	Substance is shock sensitive and thermally unstable. Decomposes when heated. Reacts violently with strong acids and reducing agents. Contact with combustible materials may cause fire.
Conditions to Avoid	Keep away from heat and sources of ignition (risk of self-accelerating exothermic decomposition). Protect from contamination- Use only very clean containers and equipment free from traces of impurities. Direct sunlight
Incompatible Materials	Strong reducing agents and strong acids. Can be explosive when mixed with aluminum powder or sodium peroxide. Catalytic decomposition may occur in the presence of metals such as lead, silver, copper, magnesium, zinc, cadmium, nickel, iron, and cobalt.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including ammonia, oxides of sulphur and oxides of nitrogen.
Hazardous Reactions	Reacts with water at room temperature and slowly decomposes to give oxygen and ammonium bisulfate. Can react vigorously with reducing agents. Can react vigorously or explosively with aluminium powder and water, ammonia/silver nitrate mixtures, iron, ammonia/zinc mixtures and if ground with sodium peroxide and potassium persulphate. When dry, ignites if potassium hydroxide solid is added. In slightly acid concentrated solution, iron dissolves vigorously.
Hazardous Polymerization	Will not occur.

# **11. TOXICOLOGICAL INFORMATION**

Toxicology Information	Toxicity data for material given below.
Inhalation	Irritating to respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Harmful if swallowed. Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin	Irritating to skin. May cause an allergic skin reaction The symptoms may include redness, itching and swelling.
Еуе	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysaema and asthma.
Acute Toxicity - Oral	LD50 (Oral, Rat): 689 mg/kg
Skin Sensitisation	May cause an allergic skin reaction.
	12. ECOLOGICAL INFORMATION
Ecotoxicity	No ecological data available for this material.
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environment Protection	Do not discharge this material into waterways, drains and sewers.

#### 13. DISPOSAL CONSIDERATIONS

Disposal	The disposal of the spilled or waste material must be done in accordance with applicable
Considerations	local and national regulations.
	Product Disposal:
	Product wastes are controlled wastes and should be disposed of in accordance with all
	applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. The product should be rendered non-hazardous before
	being sent to a licensed landfill facility.
	Do not dispose directly into the sewerage system. Do not discharge into drains or

watercourses or dispose where ground or surface waters may be affected. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

### **14. TRANSPORT INFORMATION**

#### Transport Information Australia:

This material is classified as Dangerous Goods Division 5.1 Oxidising substances according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition). Division 5.1 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.1, Flammable Gases
- Division 2.3, Toxic Gases
- Class 3, Flammable Liquids
- Division 4.1, Flammable Solids
- Division 4.2, Spontaneously Combustible Substances
- Division 4.3, Dangerous When Wet Substances
- Some Division 5.1 Oxidising substances (Refer Table 9.2)
- Division 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 6 substance is a fire risk substance
- Class 7, Radioactive Substances
- Class 8, Corrosive Substances
- Class 9, Miscellaneous Dangerous Goods, if the Class 9 substance is a fire risk substance
- Fire risk substances
- Combustible liquids

#### New Zealand:

This material is classified as Dangerous Goods Division 5.1 Oxidising Substance according to NZS 5433:2012 Transport of Dangerous Goods on Land. This material must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosive
- Division 2.1, Flammable gases
- Class 3, Flammable liquids
- Division 4.2, Spontaneously combustible substances
- Division 4.3, Dangerous When wet substances
- Division 5.2, Organic peroxides
- Division 6.2, Infectious substances
- Class 8, Corrosive substances

	Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with: - Division 6.1, Toxic Substances - Class 7, Radioactive Materials unless specifically exempted Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with: - Class 3, Flammable liquids - Division 4.1, Flammable Solids - Division 4.2, Spontaneously Combustible Substances - Division 4.3, Dangerous When Wet Substances - Division 6.2, Infectious Substances - Division 6.2, Infectious Substances - Division 6.2, Infectious Substances - Class 8, Corrosive Substances - Class 5.1 Proper Shipping Name: AMMONIUM PERSULPHATE Class: 5.1 Packaging Group: III EMS NO.: F-A, S-Q Special provisions: None Air Transport (ICAO/IATA): Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. UN No: 1444 Proper Shipping Name: AMMONIUM PERSULPHATE Class: 5.1 Project Shipping Name: AMMONIUM PERSULPHATE Class: 5.1 Project Shipping Name: AMMONIUM PERSULPHATE Class: 5.1 Project Shipping Name: AMMONIUM PERSULPHATE Class: 5.1 Packing Group: III Label: Oxidizer Packing Instruction (For passenger and cargo aircraft): 559 Packing Instruction (For cargo aircraft only): 563 Special provisions: None
U.N. Number	1444
Proper Shipping Name	AMMONIUM PERSULPHATE
DG Class	5.1
Hazchem Code	1Z
Packing Group	III
EPG Number	5A1
IERG Number	31
IMDG Marine Pollutant (MP)	No

### **15. REGULATORY INFORMATION**

Regulatory Information	Australia: Classified as Hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled
National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempted. HSNO (CCID) Name: Peroxydisulfuric acid, diammonium salt
HSNO Approval Number	HSR001311
Hazard Category	Harmful,Irritant,Oxidising
16. Disclaimer	

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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