

Safety Data Sheet

Infosafe No™ LQ21D	Issue Date : February 2013	ISSUED by INTEGRAT
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Product Name : **SEI PREMO AERIAL IGNITION DEVICES**

Classified as hazardous

1. Identification

GHS Product Identifier	SEI PREMO AERIAL IGNITION DEVICES
Company Name	INTEGRATED EMERGENCY & INDUSTRIAL EQUIPMENT SOLUTIONS
Address	11 Raglan Street Bacchus Marsh Vic 3340 Australia
Telephone/Fax Number	Tel: 0419 923 586 Fax: (03)5367 3213
Emergency phone number	0419 923 586 (9am - 9pm)
Recommended use of the chemical and restrictions on use	SEI Premo Aerial Ignition Devices in conjunction with the Premo Plastic Sphere Dispenser (PSD) provides a safe and reliable ignition source for rotary wing (Aerial) fire operations.

2. Hazard Identification

GHS classification of the substance/mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Oxidizing Solids: Category 2 Acute Toxicity - Oral: Category 4 Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal Word (s)	Danger
Hazard Statement (s)	H271 May cause fire or explosion; strong oxidiser. H302 Harmful if swallowed. H410 Very toxic to aquatic life with long lasting effects.
Pictogram (s)	Flame over circle, Exclamation mark, Environment



Precautionary statement – Prevention	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces.</p> <p>P220 Keep/Store away from clothing/combustible materials.</p> <p>P221 Take any precaution to avoid mixing with combustibles.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P283 Wear fire/flame resistant/retardant clothing.</p>
Precautionary statement – Response	<p>GENERAL:</p> <p>P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</p> <p>P370+P380+P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</p> <p>P370+P378 In case of fire: Use large quantities of water for extinction.</p> <p>P391 Collect spillage.</p> <p>INGESTION:</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P330 Rinse mouth.</p>
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

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3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Potassium Permanganate	7722-64-7	97-100 %
	Ingredients determined		Balance
	not to be hazardous.		
Other Information	Fireball are 32mm in diameter, consisting of approximately 3.0 grams of potassium permanganate. The hazards detailed in this msds relates to exposure of the potassium permanganate.		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek immediate medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

5. Fire-fighting measures

Suitable extinguishing media	Use large quantities of water. Water will turn pink to purple if in contact with potassium permanganate.
Hazards from Combustion	Under fire conditions this product may emit toxic and/or irritating fumes and gases including metal oxides.
Products	
Specific hazards arising from the chemical	A strong oxidising agent. Contact with combustible material may cause fire. Non-combustible, but will support the combustion of other materials.
Hazchem Code	1Y
Decomposition Temp.	>240°C
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. Accidental release measures

Emergency Procedures	Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Neutralise with dilute solutions of sodium sulphite, sodium metabisulphite, sodium bisulphite or sodium thiosulphate. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. Dispose of waste according to the 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.
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7. Handling and storage

Precautions for Safe Handling	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
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Conditions for safe storage, including any incompatibilities	Store in a well ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Store in suitable, labelled containers away from incompatible materials. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Maximum product temperature 40°C. Refer to AS 4326-2008 The storage and handling of oxidizing agents.
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8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been established for this material, however, the TWA Safe Work, Australia) exposure standards for dust not otherwise specified is 10 mg/m ³ . 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.
Biological Limit Values	No biological limit allocated.
Appropriate engineering controls	Provide sufficient ventilation to keep airborne levels as low as possible. Where dusts are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand 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 or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material, such as rubber or PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

9. Physical and chemical properties

Appearance	Dark purple to bronze crystals/powder
Odour	Odourless
Decomposition Temperature	>240°C
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	65 g/L (20°C)
Specific Gravity	2.7
pH	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	Not available
Flash Point	Not available
Flammability	Oxidising

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Auto-Ignition	Not applicable
Temperature	
Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, flames and other sources of ignition. Avoid storage with incompatibles, especially flammable or combustible materials.
Incompatible Materials	Organic materials, combustible materials, reducing agents, strong acids, peroxides, alcohols, ammonium nitrate, ammonium perchlorate, dichloromethylsilane, antimony, arsenic, phosphorous, sulphur, titanium, carbon, iron salts, mercury salts, hypophosphites, hyposulphites, sulphites, oxalates, halides, hydrides, arsenites, and heat.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes, including manganese oxides and corrosive fumes.
Possibility of hazardous reactions	Contact with hydrochloric acid liberates chlorine. Explodes when in contact with sulphuric acid, peroxides, nitric acid, alcohols, arsenic, phosphorous, sulphur, titanium, and anhydrides. Contact with other incompatibles results in ignition and rapid burning.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Acute toxicity data for Potassium permanganate: LD50 (Oral, Rat): 1,090 mg/kg
Ingestion	Harmful if swallowed. May cause severe burns to the mucous membranes of the mouth, throat, oesophagus and stomach. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression. Generally ingestion of concentrations up to 1% cause burning of the throat, nausea, vomiting, and abdominal pain. Ingestion of concentrations from 1% to 3% cause anemia and swelling of the throat with possible suffocation. Ingestion of concentration from 3% to 5% may cause kidney damage.
Inhalation	High concentrations of potassium permanganate dust or mist (solutions) may cause irritation of the nose, throat and respiratory tract with symptoms such as sore throat, coughing, shortness of breath and difficult breathing. It may cause central nervous system depression, spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of over-exposure include burning, coughing, laryngitis, shortness of breathe, headache, nausea, and vomiting.
Skin	Contact of solutions at room temperature may be irritating to the skin, leaving brown stains. Concentrated solutions at elevated temperature and crystals are damaging to the skin.
Eye	May be damaging to the eye tissue on contact. Severe irritation or burns. Usually where the chemical touches the eye a hardened, ulcer-like dark-brown injury develops. Swelling of the eyelid and conjunctiva as well as bleeding can occur. Permanent eye eye damage is possible.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.

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STOT-repeated exposure	Not expected to cause toxicity to a specific target organ through repeated or prolonged exposure.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence and degradability	Not available
Mobility	Not available
Environmental Protection	Do not discharge this material into waterways, drains and sewers.

13. Disposal considerations

Disposal Considerations	Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
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14. Transport information

Transport Information	<p>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).</p> <p>Division 5.1 Dangerous Goods are incompatible in a placard load with any of the following:</p> <ul style="list-style-type: none">- 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
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Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN-No: 1490

Proper Shipping Name: POTASSIUM PERMANGANATE

Class: 5.1

Packaging Group: II

EMS No.: F-A, S-Q

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: 1490

Proper Shipping Name: Potassium permanganate

Class: 5.1

Packaging Group: II

Label: Oxidizer

Packaging Instructions (passenger & cargo): 558

Packaging Instructions (cargo only): 562

U.N. Number

1490

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UN proper shipping name	POTASSIUM PERMANGANATE
Transport hazard class(es)	5.1
Hazchem Code	1Y
Packaging Method	3.8.5.1
Packing Group	II
EPG Number	5A1
IERG Number	31
IMDG Marine pollutant	No

15. Regulatory information

Regulatory Information	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	S6

16. Other Information

Date of preparation or last revision of SDS	SDS Created: February 2013
Literature References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH) Globally Harmonised System of classification and labelling of chemicals. ...End Of MSDS...

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