

Safety Data Sheet

according to WHS Regulations

Printing date 06.10.2021

Revision: 06.10.2021

1 Identification

Product Name: MAGNESIUM FIRE STARTER

Other Means of Identification: Mixture

Other Name: Fire Starter.

Part Number: GMA1005

Recommended Use of the Chemical and Restriction on Use: Fire starting.

Details of Manufacturer or Importer:

Adventure Trading Australia Pty Ltd

71 Charles Ulm Place

Eagle farm, QLD 4009

Australia

Phone Number: (07) 3193 1110

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Flame

Flammable Solids 2 H228 Flammable solid.

Pyrophoric Solids 1 H250 Catches fire spontaneously if exposed to air.

Water-react. 1 H260 In contact with water releases flammable gases which may ignite spontaneously.

Signal Word Danger

Hazard Statements

H228 Flammable solid.

H250 Catches fire spontaneously if exposed to air.

H260 In contact with water releases flammable gases which may ignite spontaneously.

Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P222 Do not allow contact with air.

P223 Do not allow contact with water.

P231+P232 Handle and store contents under inert gas. Protect from moisture.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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

P302+P335+P334 IF ON SKIN: Brush off loose particles from skin and immerse in cool water.

P302+P335+P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.

P370+P378 In case of fire: Use CO2, sand, extinguishing powder to extinguish.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 06.10.2021



Revision: 06.10.2021

Product Name: MAGNESIUM FIRE STARTER

(Contd. of page 1)

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7439-95-4	Magnesium	 Pyrophoric Solids 1, H250; Water-react. 1, H260	70 - 80%
CAS: 7440-45-1	Cerium	 Flammable Solids 1, H228	5 - 15%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Inhalation: Inhalation of dust may cause mechanical respiratory irritation.

Skin Contact: May cause mechanical skin irritation due to the abrasive action of the material.

Eye Contact: May cause mechanical eye irritation due to the abrasive action of the material.

Ingestion: May cause gastrointestinal irritation.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Sand, salt (NaCl) or Class D dry-powder extinguishers. DO NOT use water, carbon dioxide or halogenated agents.

Specific Hazards Arising from the Chemical:

No hazardous combustion products known.

Product is a flammable solid. Finely divided product may catch fire spontaneously.

This product may form flammable hydrogen when in contact with water or acids.

Containers close to fire should be removed if safe to do so. Cover all exposed surfaces of the product with extinguishing agent and allow to cool.

Minimise run-off from fire fighting measures entering drains and water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Extinguish all sources of ignition. Avoid sparks and open flames. No smoking

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 06.10.2021

Revision: 06.10.2021

Product Name: MAGNESIUM FIRE STARTER

(Contd. of page 2)

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep into a pile and place in containers for subsequent disposal or reuse. Avoid generating dust. Provide adequate ventilation. Rubbing the product with metal objects may create sparks causing a fire.

7 Handling and Storage

Precautions for Safe Handling:

Finely divided product may catch fire spontaneously. Powders may be flammable or explosive. This product may form hydrogen when in contact with water or acids. Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from water and acids.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection: Skin protection is not required under normal use conditions.

Eye and Face Protection: Eye protection is not required under normal use conditions.

9 Physical and Chemical Properties

Appearance:

Form:	Solid
Colour:	Metallic dark grey
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	Not applicable
Melting point/freezing point:	>600 °C
Initial Boiling Point/Boiling Range:	>1000 °C
Flash Point:	Not applicable
Flammability:	Flammable solid. Contact with water liberates extremely flammable gases.
Auto-ignition Temperature:	473 °C
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	~1.74 (For magnesium)

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 06.10.2021

Revision: 06.10.2021

Product Name: MAGNESIUM FIRE STARTER

(Contd. of page 3)

Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

Finely divided product may catch fire spontaneously.

This product may form hydrogen when in contact with water or acids.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Water and acids.**Hazardous Decomposition Products:** No hazardous decomposition products known.

11 Toxicological Information

Toxicity:**Acute Health Effects****Inhalation:** Inhalation of dust may cause mechanical respiratory irritation.**Skin:** May cause mechanical skin irritation due to the abrasive action of the material.**Eye:** May cause mechanical eye irritation due to the abrasive action of the material.**Ingestion:** May cause gastrointestinal irritation.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

12 Ecological Information

Ecotoxicity: No adverse ecological effects are expected.**Aquatic toxicity:** No further relevant information available.**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 06.10.2021

Revision: 06.10.2021

Product Name: MAGNESIUM FIRE STARTER

(Contd. of page 4)

Mobility in Soil: This product is insoluble, so can be expected to not be mobile in soil.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 05.10.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Solids 1: Flammable solids – Category 1

Flammable Solids 2: Flammable solids – Category 2

Pyrophoric Solids 1: Pyrophoric solids, Hazard Category 1

Water-react. 1: Substances and mixtures, which in contact with water, emit flammable gases. Hazard Category 1

Data altered compared to the previous version:

Section 1: Details of Manufacturer or Importer, Section 1: Phone number, Section 3: Hazardous Components, Section 5: Specific Hazards Arising from the Chemical

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Adventure Trading Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.