Safety Data Sheet
according to WHS Regulations

Date of issue: 29.11.2024 Revision date: 28.11.2024

1 Identification

Product Name: SAFETY DEVICES

Other Means of Identification: Article

Recommended Use of the Chemical and Restriction on Use: Safety devices

Details of Manufacturer or Importer:
Isuzu Australia Limited
66 Foundation Road
Truganina, VIC 3029

Phone Number: 1800 035 640

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

2 Hazard(s) Identification

Hazardous Nature:
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
This product is considered as article and is as such exempted from the UN-GHS classification requirements.
The classification based on the hazardous substances contained in the product is provided below for information purposes only.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).


GHS03 Flame over circle

Oxidising solids - Category 1	H271 May cause fire or explosion; strong oxidizer.


GHS06 Skull and crossbones

Acute toxicity - oral – Category 3	H301 Toxic if swallowed.


GHS07

Skin corrosion/irritation – Category 2	H315 Causes skin irritation.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements
H271 May cause fire or explosion; strong oxidizer.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P220	Keep/Store away from clothing/combustible materials.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P283	Wear fire/flame resistant/retardant clothing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306+P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P420	Store away from other materials.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

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

Hazardous Components:		
CAS: 506-93-4	Guanidinium nitrate Oxidising solids - Category 3, H272; Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	10-20%
CAS: 10042-76-9	Strontium nitrate Oxidising solids - Category 2, H272	10-20%
CAS: 4418-61-5	5-Aminotetrazole Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	<5%
CAS: 7440-42-8	Boron Acute toxicity - oral – Category 2, H300	<5%
CAS: 7757-79-1	Potassium nitrate Oxidising solids - Category 3, H272	<5%
CAS: 1313-27-5	Molybdenum trioxide Carcinogenicity – Category 2, H351; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	<1%
CAS: 7440-67-7	Zirconium powder (pyrophoric) Pyrophoric liquids – Category 1, H250; Pyrophoric solids – Category 1, H250; Substances and mixtures which, in contact with water, emit flammable gases – Category 1, H260	<0.1%

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CAS: 7778-74-7	Potassium perchlorate Oxidising liquids - Category 1, H271; Oxidising solids - Category 1, H271; Acute toxicity - oral – Category 4, H302	<0.1%

Non Hazardous Components:		
CAS: 7782-42-5	Graphite	10-20%
CAS: 7440-33-7	Tungsten	<0.1%

Additional information:
This device is considered as a manufactured article and so is exempt from GHS classification. The classifications listed above refer to the contents of this device. Users will not be exposed to the contents during normal use, but hazardous materials may be released when the device is activated or if subjected to fire, mechanical shocks, or misuse.

4 First Aid Measures

General Information: This information is relevant only if the inner contents are exposed.

Inhalation:
If the inner contents are inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:
In case of skin contact with inner contents, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation persists.

Eye Contact:
In case of eye contact with inner contents, rinse with water for several minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:
If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:
Inhalation: Inner contents may cause respiratory irritation.
Skin Contact: Inner contents cause skin irritation.
Eye Contact: Inner contents cause serious eye irritation.
Ingestion: Toxic if swallowed. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:
Hazardous combustion products include toxic gases and various oxides (carbon, nitrogen, potassium, silicon, and strontium).
Product is not flammable but components may burn in a fire. May intensity fire or explosion; oxidiser.
Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.
Minimise run-off from fire fighting entering drains or water courses.
HAZCHEM Code: 2Z

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.

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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:
The material contained within the device is released only in the case of mechanical, electrical or thermal abuse. In the event of rupture and leakage allow the device to cool and the vapour to dissipate. Stop leak if safe to do so and absorb spill with sand, earth or some other inert absorbent material. Collect the spilled material and place into a suitable plastic lined container for disposal. Clean spill surface with detergent and water, collect all contaminated wash water for proper disposal.

7 Handling and Storage

Precautions for Safe Handling:
Do not disassemble, crush, deform, expose to high temperatures or incinerate. Do not weld, solder or in any way modify devices. Do not damage or remove the external casing.
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mists. 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. Contaminated work clothing must not be allowed out of the workplace. 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 direct sunlight, impact, static electricity, heat, sparks, open flames and other sources of ignition. Keep away from strong acids, strong bases and combustible materials.

8 Exposure Controls and Personal Protection

Exposure Standards:	
CAS: 7782-42-5 Graphite	
WES	TWA: 3 mg/m³
CAS: 1313-27-5 Molybdenum trioxide	
WES	TWA: 5 mg/m³ as Mo

Engineering Controls:
Ensure adequate ventilation of the working area if the inner contents are exposed, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:
Not necessary under normal conditions.
However, if dealing with leakage and irritating vapours are generated, an approved half face inorganic vapours and gases/acid gases/particulate respirator is required. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
Protective gloves if the inner contents are exposed. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.
Occupational protective clothing if the inner contents are exposed (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye protection is not required under normal use conditions.
In case of spill or leakage wear safety glasses for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

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9 Physical and Chemical Properties

Appearance:	
Form:	Solid. Sealed steel unit.
Colour:	According to product specification
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	Not applicable
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability	Contact with combustible material may cause fire.
Auto-ignition Temperature:	180 °C
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Impact, static electricity, heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Strong acids, strong bases and combustible materials.

Hazardous Decomposition Products:
Toxic gases and various oxides (carbon, nitrogen, potassium, silicon, and strontium).

11 Toxicological Information

Toxicity:

LD50/LC50 Values:		
CAS: 506-93-4 Guanidinium nitrate		
Oral	LD50	1,028 mg/kg (Mus musculus (mouse))
CAS: 10042-76-9 Strontium nitrate		
Oral	LD50	2,750 mg/kg (Rattus norvegicus (rat))
CAS: 7440-42-8 Boron		
Oral	LD50	650 mg/kg (Rattus norvegicus (rat))
CAS: 7757-79-1 Potassium nitrate		
Oral	LD50	3,750 mg/kg (Rattus norvegicus (rat))
	LD50	>5,000 mg/kg (Rattus norvegicus (rat))
CAS: 1313-27-5 Molybdenum trioxide		
Oral	LD50	125 mg/kg (Rattus norvegicus (rat))

Acute Health Effects
Inhalation: Inner contents may cause respiratory irritation.
Skin: Inner contents cause skin irritation.

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Eye: Inner contents cause serious eye irritation.
Ingestion: Toxic if swallowed. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

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:
Based on classification principles, the classification criteria are not met.
Molybdenum trioxide is classified by IARC as Group 2B - Possibly carcinogenic to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause respiratory irritation.

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 data associated with long term health effects.

Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

CAS: 7757-79-1 Potassium nitrate	
EC50/48 h	490 mg/l (Daphnia magna (water flea))
LC50/96 h	1,378 mg/l (Poecilia reticulata (guppy))

Persistence and Degradability: No data available on finished product.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

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
ADG, IMDG, IATA UN3268

Proper Shipping Name
ADG, IMDG, IATA SAFETY DEVICES, electronically initiated

Dangerous Goods Class
ADG Class: 9

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Packing Group: **ADG, IMDG, IATA**	-
EMS Number:	F-B,S-X
Hazchem Code:	2Z
Special Provisions:	280, 289
Excepted quantities (EQ):	E0
Limited Quantities:	0

Packagings & IBCs - Packing Instruction: P902, LP902

15 Regulatory Information

Australian Inventory of Industrial Chemicals:
All components are on the inventory, or in compliance with the inventory.

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: 28.11.2024

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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)
Pyrophoric liquids – Category 1: Pyrophoric liquids, Hazard Category 1
Pyrophoric solids – Category 1: Pyrophoric solids, Hazard Category 1
Substances and mixtures which, in contact with water, emit flammable gases – Category 1: Substances and mixtures, which in contact with water, emit flammable gases. Hazard Category 1
Oxidising liquids - Category 1: Oxidising liquids, Hazard Category 1
Oxidising solids - Category 1: Oxidising solids, Hazard Category 1
Oxidising solids - Category 2: Oxidising solids, Hazard Category 2
Oxidising solids - Category 3: Oxidising solids, Hazard Category 3
Acute toxicity - oral – Category 2: Acute toxicity – Category 2
Acute toxicity - oral – Category 3: Acute toxicity – Category 3
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Carcinogenicity – Category 2: Carcinogenicity – Category 2
Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

Disclaimer
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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”.