

SAFETY DATA SHEET

**AURORA
LITES**

REDHEADS FIRELIGHTERS

Infosafe No.: LQB4J
ISSUED Date : 25/05/2022
ISSUED by: AURORA LITES PTY LTD

Section 1 - Identification

Product Identifier

REDHEADS FIRELIGHTERS

Company Name

AURORA LITES PTY LTD (ABN 66 649 845 787)

Address

20 Gwynne Street Cremorne
VIC 3121 Australia

Telephone/Fax Number

Tel: +61 1800 577 280

Emergency Phone Number

Poisons Information Centre (131 126) (24 hours)

E-mail Address

hello@auroralites.com.au

Recommended use of the chemical and restrictions on use

Cubes for ignition of solid fuels.

Other Names

| Name | Product Code |
|----------------|--------------|
| BLOCK | 25000 |
| MEGA BLOCK | 23401, 25920 |
| WRAPPED 20 | 23580, 23600 |
| WRAPPED 36 | 25807 |
| HERITAGE BLOCK | 25100 |

Other Information

The company for all the Redheads products is Aurora Lites Pty Ltd And The company for all the Beehive products is Aurora Lites Limited.

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Aurora Lites Pty Ltd and Aurora Lites Limited make no representations as to the completeness or accuracy thereof. Information is supplied on the conditions that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Aurora Lites Pty Ltd and Aurora Lites Limited or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

Section 2 - Hazard(s) 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)

Flammable solids: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

AUH066 Repeated exposure may cause skin dryness or cracking.

H228 Flammable solid.

Pictogram (s)

Flame



Precautionary Statement – Prevention

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

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.

Precautionary Statement – Response

P370+P378 In case of fire: Use CO₂, Dry Powder, Foam or water spray to extinguish.

Section 3 - Composition and Information on Ingredients

Ingredients

| Name | CAS | Proportion |
|---|------------|--------------|
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC No: 918-481-9) | | 60-90 % |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | 0.25-<0.85 % |
| Methanol | 67-56-1 | 0.04-<0.14 % |
| Ingredients determined not to be hazardous. | | Balance |

Section 4 - First Aid Measures

Inhalation

Not considered a potential route of exposure for intact/non lit product.

However, if breathing difficulties or irritation of the respiratory tract occur after exposure to fumes released from the lit match, 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. If symptoms develop and/or persist seek medical attention.

First Aid Facilities

Eyewash and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

Section 5 - Firefighting Measures

Suitable Extinguishing Media

CO₂, Dry Powder, Foam or water spray.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including pyrolysis products, carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific hazards arising from the chemical

Flammable solid. May ignite by friction, heat, sparks or flame. Fire-exposed container may rupture/explode. May emit toxic fumes under fire conditions.

Hazchem Code

1Z

Decomposition Temperature

Not available

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. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Section 6 - Accidental Release Measures

Emergency Procedures

Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. 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.

Section 7 - Handling and Storage

Precautions for Safe Handling

Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Wear overalls, impervious gloves and safety glasses. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Use explosion-proof equipment. Keep material away from sparks, flames and other ignition sources. Do not pressurise or expose to open flame or heat. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

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. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations.

For information reference should be made to AS/NZS 5026 , The storage and handling of Class 4 dangerous goods.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values

No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Oil mist, refined mineral
TWA: 5 mg/m³

Methanol
TWA: 200 ppm, 262 mg/m³
STEL: 250 ppm, 328 mg/m³
Note: Sk

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.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Source: Safe Work Australia

Biological Monitoring

Name: Methanol

Determinant:

Methanol in urine

Value: 15 mg/L

Sampling time: End of shift

Notation: B, Ns

Source: American Conference of Industrial Hygienists (ACGIH).

Control Banding

Not available

Engineering Controls

Use with good general ventilation. If dusts are produced, local exhaust ventilation should be used.

If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

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. Refer to relevant regulations for further information concerning respiratory protective requirements.

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 and Face 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 (series) - Eye Protectors for Industrial Applications.

Hand Protection

Not required when used as intended. Wear gloves of impervious material in case of frequent or prolonged use and in case of large scale exposure such as Nitrile rubber (breakthrough time: 480 min). 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.

Thermal Hazards

No further relevant information available.

Body Protection

Not required when handling packaged product. If handled with raw product for a long time, use protective gloves (EN 374) Nitrile rubber (breakthrough time: 480 min).

Section 9 - Physical and Chemical Properties

| Properties | Description | Properties | Description |
|---------------------------|------------------------|--|--------------------|
| Form | Solid | Appearance | Solid |
| Colour | White | Odour | No odour |
| Melting Point | Not applicable | Boiling Point | Not applicable |
| Decomposition Temperature | Not available | Solubility in Water | Insoluble in water |
| Specific Gravity | Not available | pH | Not applicable. |
| Vapour Pressure | Not available | Relative Vapour Density (Air=1) | Not available |
| Evaporation Rate | Not available | Odour Threshold | Not available |
| Viscosity | Not applicable. | Partition Coefficient: n-octanol/water (log value) | Not available |
| Flash Point | Not applicable (Solid) | Flammability | Flammable |
| Auto-Ignition Temperature | Not available | Explosion Limit - Upper | Not available |
| Explosion Limit - Lower | Not available | Explosion Properties | Not explosive |
| Oxidising Properties | Not oxidising. | Particle Characteristics | Not available |

Section 10 - Stability and Reactivity

Reactivity

React with incompatible materials.

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

Reacts with incompatible materials.

Conditions to Avoid

Heat, open flames and other sources of ignition. See section 7.

Incompatible Materials

Oxidizing agents.

Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including pyrolysis products, carbon monoxide, carbon dioxide and oxides of nitrogen.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Toxicology Information

Toxicity data for material given below.

Acute Toxicity - Oral

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)

LD50 (rat): > 5 000 mg/kg (OECD 401)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

LD50(rat): >300-2000 mg/kg (OECD 401)

Acute Toxicity - Dermal

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
LD50(rabbit): >2000 mg/kg (OECD 402)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
LD50(rat): >2000 mg/kg (OECD 402)

Acute Toxicity - Inhalation

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
LC50(rat): > 4.951 mg/m³/4h (OECD 403)

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

Inhalation of fumes from the lit firelighters may cause irritation of the nose, throat and respiratory system.

Skin

May be irritating to skin. The symptoms may include redness, itching and swelling.
Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

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.

STOT - Repeated Exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

Section 12 - Ecological Information

Ecotoxicity

The available ecological data is given below.

Persistence and degradability

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
Biodegradability: 80 % after 28 days

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS 68411-30-3)
>70% (28d), aerobic biodegradability OECD Test Guideline 301 A – Method C.4-A
>60% (28d), aerobic biodegradability OECD Test Guideline 301 B - Method C.4-C

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
LL0 (Oncorhynchus mykiss): 1.000 mg/l/96 h

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
LC50 (riba – Lepomis macrochirus): > 1 - 10 mg/l/96h, (US EPA 1975)

Acute Toxicity - Daphnia

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
ELO (Daphnia magna): 1.000 mg/l/48 h

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
EC50 (Daphnia -Daphnia magna):> 1 - 10 mg/l/48h (OECD 202)

Acute Toxicity - Algae

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EINECS-No 918-481-9)
ELO (Pseudokirchneriella subcapitata): 1.000 mg/l/72 h

Chronic Toxicity - Fish

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
Chronic NOEC (Pimephales promelas): > 1 - 10 mg/l fish

Chronic Toxicity - Algae

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
NOEC (Algae- Elodea canadensis): > 4 mg/l (Literary information)

Chronic Toxicity - Other Organisms

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
EC10 (Aporroectodea caliginosa): 71.7 mg/kg (Literary information)
EC10 (Folsomia sp): 107.6 mg/kg (Literary information)
NOEC (Sorghum bicolor (sorghum)): 100 mg/kg (OECD 208)
EC10 (Brassica rapa): 86 mg/kg (Literary information)
NOEC (Nigella arvensis): 52 mg/kg (OECD 208)

Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

Section 13 - Disposal Considerations

Disposal Considerations

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

To minimise personal exposure to the chemical, refer to Section 8 - Exposure Controls and Personal Protection.

Section 14 - Transport Information

Transport Information

Road and Rail Transport (ADG Code):

This material is classified as Dangerous Goods Division 4.1 Flammable Solids according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

Division 4.1 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.1, Flammable Gases
- Division 4.2, Spontaneously Combustible Substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic Peroxides
- Class 7, Radioactive Substances

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.: 2623

Proper Shipping Name: FIRELIGHTERS, SOLID

Class: 4.1

Packaging Group: III

EMS No.: F-A, S-I

Special Provision: -

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.: 2623

Proper Shipping Name: Firelighters, solid

Class: 4.1

Packaging Group: III

Label: Flammable solid

Packaging Instructions (passenger & cargo): 446

Packaging Instructions (cargo only): 449

Special Provisions: A803

ADG U.N. Number

2623

ADG Proper Shipping Name

FIRELIGHTERS, SOLID

ADG Transport Hazard Class

4.1

ADG Packing Group

III

Hazchem Code

1Z

IERG Number

20

Special Precautions for User

It is possible that a "Limited Quantity" exemption applies to the transport of this product.

IMDG Marine pollutant

No

Transport in Bulk

Not available

Section 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.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

Montreal Protocol

Not listed

Stockholm Convention

Not listed

Rotterdam Convention

Not listed

International Convention for the Prevention of Pollution from Ships (MARPOL)

Not available

Agricultural and Veterinary Chemicals Act 1994

Not available

Basel Convention

Not available

Section 16 - Any Other Relevant Information

Date of Preparation

SDS Created: May 2022

Version Number

Version: 1.0

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.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

END OF SDS

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