

SAFETY DATA SHEET

**AURORA
LITES**

REDHEADS SAFETY MATCHES

Infosafe No.: LQB2D
ISSUED Date : 14/04/2022
ISSUED by: AURORA LITES PTY LTD

Section 1 - Identification

Product Identifier

REDHEADS SAFETY MATCHES

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

Safety matches

Other Names

Name	Product Code
EXTRA LONG	22968
EXTRA LONG (TWIN PACK)	25893
SHRINKWRAP	22966
HANDY PACK	22967

Illicit Drug Precursors

This product contains a Category I: Illicit Drug Precursor/Reagent in the Code of Practice for Supply Diversion into Illicit Drug Manufacture.

Chemical of Security Concern

This product contains chemical listed in the National Code of Practice for Chemicals of Security Concern.

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)

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 alcohol-resistant foam, carbon dioxide, powder, water mist to extinguish.

Section 3 - Composition and Information on Ingredients

Ingredients

Name	CAS	Proportion
potassium chlorate	3811-04-9	30-60 %
Ferric Oxide (Fe ₂ O ₃)	1309-37-1	1-5 %
Quartz (SiO ₂) (respirable fraction)	14808-60-7	<2 %
red phosphorus	7723-14-0	<1 %

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

Not considered a potential route of exposure for intact product, when used as intended.

However, if the tip of the match is ingested, DO NOT induce vomiting.

Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

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

However, if burns occur due to the lit match, seek treatment for the burn.

Do not break blister, attempt to remove loose skin, or apply lotion. Cool skin with cold water, wrap loosely with bandage or cloth, and seek immediate medical attention.

Eye

Not considered a potential route of exposure for intact/non lit product.
However, if burns occur due to the lit match, seek treatment for the burn.
Cool eyes rapidly with cold water. If contact lenses adheres to eyes, do not attempt to remove. Seek immediate 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

Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon, halogenated compounds and some metal oxides.

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

Testing not relevant or not possible due to nature of the product.

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

Always wear gloves and protective clothing when in contact with chemical substances.

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation. Sweep up material and then transfer to a suitable container.

If large quantities of this material enter the waterways inform the local water and waste management authorities in accordance with local regulations.

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers tightly closed. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Must be stored in a cool and well-ventilated area, away from possible sources of ignition. Powder trickling out onto the floor or onto other containers must be prevented. Have appropriate fire extinguishers available in and near the storage area.

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:

Ferric Oxide (Fe₂O₃)

TWA: 5 mg/m³

Quartz (respirable dust)

TWA: 0.05 mg/m³

Note: Carc.1A

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.

Carc.1A: Known to have carcinogenic potential for humans.

Source: Safe Work Australia

Biological Monitoring

No biological limits allocated.

Control Banding

Not available

Engineering Controls

Use with good general ventilation.

Respiratory Protection

Respiratory protection is not needed in the event of adequate ventilation

Eye and Face Protection

Not required when used as intended.

Hand Protection

Not required when used as intended.

Thermal Hazards

No further relevant information available.

Body Protection

Not required when used as intended.

Other Information

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

In case of simultaneous exposure to several air pollutants, their combined effects shall be considered. In assessing exposure conditions, the body weight and absorption of certain substances through the skin shall be taken into account in addition to the concentration of air pollutants in inhaled air. The person who plans and carries out the air pollution measurement shall have sufficient knowledge to do so.

Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Solid	Appearance	Solid
Colour	Red	Odour	None
Melting Point	Testing not relevant or not possible due to nature of the product.	Boiling Point	Does not apply to solids.
Decomposition Temperature	Testing not relevant or not possible due to nature of the product.	Solubility in Water	Testing not relevant or not possible due to nature of the product.
Specific Gravity	Not available	Solubility in Fat	Testing not relevant or not possible due to nature of the product.
pH	Testing not relevant or not possible due to nature of the product.	Vapour Pressure	Testing not relevant or not possible due to nature of the product.
Relative Vapour Density (Air=1)	Does not apply to solids.	Evaporation Rate	Testing not relevant or not possible due to nature of the product.
Odour Threshold	Not available	Viscosity	Does not apply to solids.
Partition Coefficient: n-octanol/water (log value)	Testing not relevant or not possible due to nature of the product.	Density	Testing not relevant or not possible due to nature of the product.
Flash Point	Does not apply to solids.	Flammability	Flammable solid
Auto-Ignition Temperature	Testing not relevant or not possible due to nature of the product.	Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available	Softening Point	Does not apply to solids.
Particle Characteristics	Testing not relevant or not possible due to nature of the product.		

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. Avoid static electricity.

Incompatible Materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Hazardous Decomposition Products

The product is not degraded when used as specified in section 1.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Toxicology Information

Based on available data obtained from in-house tests on the mixture or similar mixtures, the criteria for classifying the mixture as harmful if swallowed are not met.

Exposure during use is not expected. Therefore, the mixture has not been classified as harmful if inhaled. Based on available data, the classification criteria are not met.

Ingestion

Ingestion of match tip: May cause irritation to the mouth, throat, oesophagus, and stomach, with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

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

Skin

Unlikely due to form of product.

Contact with lit match causes severe irritation and thermal burns; and can cause permanent scarring of tissue.

Eye

Unlikely due to form of product.

Contact with lit match can cause severe irritation and thermal burns; and can cause permanent scarring of tissue.

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.

Crystalline silica (Quartz) is listed as a Group 1: Carcinogenic to humans according to International Agency for Research on Cancer (IARC).

Ferric Oxide (Fe₂O₃) is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

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

Based on available data obtained from in-house tests on the mixture or similar mixtures, the criteria for classifying the mixture as hazardous to the aquatic environment are not met.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

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

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.: 1944

Proper Shipping Name: MATCHES, SAFETY (book, card or strike on box)

Class: 4.1

Packaging Group: III

EMS No.: F-A, S-I

Special Provision: 293, 294

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.: 1944

Proper Shipping Name: Matches, safety (book, card or strike on box)

Class: 4.1

Packaging Group: III

Label: Flammable solid

Packaging Instructions (passenger & cargo): 455

Packaging Instructions (cargo only): 455

Special Provisions: A125

ADG U.N. Number

1944

ADG Proper Shipping Name

MATCHES, SAFETY

ADG Transport Hazard Class

4.1

ADG Packing Group

III

Hazchem Code

1Z

IERG Number

20

Special Precautions for User

Not available

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: April 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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