

Material Safety Data Sheet

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Infosafe No™ LPVI4

Issue Date : June 2009

ISSUED by SWEDISHM

Product Name **SAFETY MATCHES**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SAFETY MATCHES
Product Code 22966, 22967, 22968, 22969, 21058, 21624, 22344, 22361
Company Name SWEDISH MATCH AUSTRALIA PTY LTD (ABN 38 081 215 321)
Address 718 Princes Highway Springvale
Victoria 3171 Australia
Emergency Tel. 1800 335 691
Telephone/Fax Number Tel: 1800 335 691
Recommended Use As an ignition source e.g. lighting fires.

Other Names	<u>Name</u>	<u>Product Code</u>
	BEEHIVE SAFETY MATCHES	
	REDHEAD SAFETY MATCHES	

Other Information Swedish Match New Zealand Pty Ltd
18-26 Amelia Earhart Ave, Airport Oaks
Auckland, New Zealand
GST No. 65-427-737
Telephone: 0800 442 866 (FreeCall NZ)

2. HAZARDS IDENTIFICATION

Hazard Classification Australia:
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:
Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

NOTE:
The classification of Non Dangerous Goods is due to this product being less than 25kg in mass. The product must be packaged in accordance with instruction P407 in chapter 4.1 of the ADG code 7, to be classified as Non Dangerous.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition Composition & Ingredients: Wood and a Chemical compound.
Stick: Aspen or poplar stick impregnated with ammonium phosphate and paraffin wax.
Head: A mixture of potassium chlorate with animal glue (technical gelatine) together with inert materials to moderate combustion, and minor amounts of red amorphous phosphorus and colorants.
Box: The side panels are coated with a special composition containing amorphous phosphorus.

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Ingredients determined not to be hazardous		100 %

4. FIRST AID MEASURES

Inhalation If smoke from lit match is inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion Unless large quantities of matches are ingested (>10 matches/kilogram of body weight) there is little risk to health following ingestion.

Skin No first aid measures required if matches are not lit. However if burns occur due to lit match, treat as normal burns. Do not break blisters or attempt to remove loose skin or apply lotion. Cool with cold water, wrap loosely with non

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Eye fluffy sterile bandage or cloth and immediately seek trained medical attention.
Not an eye hazard.

First Aid Facilities Normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, dry chemical, foam, and water mist or water jets.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including oxides of carbon and acidic gases such as phosphorus oxides.

Specific Hazards This product is a flammable solid.

Precautions in connection with Fire Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove all sources of heat. Sweep/collect up material and then transfer to a suitable labelled container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. 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.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in labelled containers. Keep containers tightly closed. Store away from water and incompatible materials. They should not be stacked more than 4.5 meters above ground. Have appropriate fire extinguishers available in and near the storage area.

NOTE:
Any ignition of matches in intact closed boxes, displays and cases invariably self extinguishes because there is insufficient oxygen in the closed packaging only when the case or package bursts open is there any danger of sustained combustion taking place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour.

Biological Limit Values No biological limit allocated.

Engineering Controls Use with good general ventilation.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable 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 Not required under normal conditions. Industrial applications: 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 Not required under normal conditions. Industrial applications: Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk

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assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. Not required under normal conditions. Industrial applications: Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Boxes < 25 kg containing wooden stick carrying an ignition tip.
Odour	Low, woody smell.
Melting Point	Not available.
Boiling Point	Not available.
Solubility in Water	Approx. 10mg of each match is soluble.
Specific Gravity	1.3
pH Value	Not applicable.
Vapour Pressure	0 kpa (38°C)
Vapour Density (Air=1)	Not applicable.
Flash Point	Not available.
Auto-Ignition Temperature	180°C
Flammable Limits - Lower	Not available.
Flammable Limits - Upper	Not available.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Extremes of temperature, moisture and direct sunlight.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Potassium chlorate (each match head contains ~10 mg potassium chlorate): LDLo/humans: 429 mg/kg body weight. Red amorphous phosphorus: LD50/oral/rat: 15000 mg/kg body weight
Inhalation	Inhalation of product fumes may cause irritation of the nose, throat and respiratory system.
Ingestion	Unlikely to occur due to physical state of product.
Skin	May cause burns to skin if lit matches are mishandled.
Eye	Not an eye hazard.
Chronic Effects	Not expected to cause chronic health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Swedish Match safety matches contain no toxic heavy metals and they do not emit sulphur dioxide when burned. They have very little impact on the environment being made from mostly natural raw materials. Potassium chlorate is a herbicide but on combustion this is converted into the ecologically harmless compound potassium chloride.
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Persistence / Degradability Used matches and boxes biodegrade rapidly in the environment.

Mobility Not available.

Environ. Protection Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, EPA and state regulations.

14. TRANSPORT INFORMATION

Transport Information Australia:
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:
Not classified as Dangerous Goods for transport according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

NOTE:
The classification of Non Dangerous Goods is due to this product being less than 25kg in mass. The product must be packaged in accordance with instruction P407 in chapter 4.1 of the ADG code 7, to be classified as Non Dangerous. If the product is not packaged accordingly, the classification will default to UN: 1944.

15. REGULATORY INFORMATION

Regulatory Information Australia:
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

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

Poisons Schedule Not Scheduled

National and or International Regulatory Information New Zealand:
Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

16. OTHER INFORMATION

Date of preparation MSDS Reviewed: June 2009

or last revision of MSDS MSDS created: June 2006

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