



1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product name Smoke Matches
Product No. PH009, PH00925, PH00950, PH00975
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2. HAZARDS IDENTIFICATION

Flammable solid
Ignites readily, burns without flaming, giving dense white smoke. The combustion of large quantities of the product gives rise to significant quantities of smoke with flames. Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Approx (%)	Symbol	R Phases
Potassium	003811-04-9	20%	O,Xn	R9 R20/22
Potassium				
Manganese	001313-13-9	30%	Xn	R20/22
Smoking Agent			Xn	R10-R22

4. FIRST AID MEASURES

Inhalation In severe cases, remove patient from exposure, if recovery is not rapid or complete seek medical attention.
The following apply to the unburned product.
Skin contact: Wash skin with water, followed by soap and water. If irritation arises seek medical attention.
Ingestion: If swallowed, rinse mouth with water. Seek medical attention and show this Data Sheet, if possible.

5. FIRE-FIGHTING MEASURES

Ignites readily. Oxidising agents will assist combustion. Keep fire exposed containers cool by spraying with water.
Extinguishing Media Use large volumes of water as a spray or fog, avoid use of water jet. Contain run-off water with for example temporary earth barriers.
Fire Fighting protective Equipment A self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

No naked lights. No smoking.
Ensure suitable personal protection during removal of spillages of large amounts of product. This means wearing eye protection and chemically resistant gloves. Transfer to a container for disposal. Due to the potassium chlorate content, product must be prevented from entering surface water or drains. When spillages into watercourses occur, the National Rivers Authority must be alerted.

7. HANDLING AND STORAGE

Handling Precautions Read the instructions before use. Do not breath smoke. Avoid contact with skin. Wash hands before meals and after use. When using do not eat, drink or smoke.
Storage Precautions Keep away from food, drink and animal feeding stuffs, Keep out of reach of children, Keep in original container, tightly closed in a safe place, Keep away from heat and sources of ignition. Store in a dry place.
Storage Life Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

When using this product refer to the instructions for details. Should it be necessary to enter a heavily smoke laden area, protective respiratory equipment and eye protection must be used (see HSE Guidance Booklet (HS) G 53: "Respiratory Protective Equipment - a practical guide for users").

Name	LTEL	8hr TWA	STEL
Smoking Agent	-	10 mg/m ³	20 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance The match comprises of the main burning composition dipped onto the match splint, and then tipped with a red striker tip to facilitate ignition.
Odour Odourless
pH Not applicable
Boiling point Not applicable
Melting point Not applicable
Flash point Does not flash
Autoflammability >100oC
Explosive properties Not applicable
Oxidising properties Oxidising agent will assist combustion.
Vapour pressure Not available
Relative density Not available
Solubility(water) Soluble
Partition coefficient Not applicable

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.
Hazardous reactions Ignites readily.
Hazardous Decomposition Products Combustion or thermal.

11. TOXICOLOGICAL INFORMATION.

This health hazard assessment is based on information available on similar products.
Inhalation Possible irritation to respiratory tract.
Skin contact Possible risk of skin irritation.
Eye Contact Combustion product may cause eye irritation.
Ingestion Harmful if swallowed.
Lowest LD50 of chemical constituents of composition 283 mg/kg (Oral Rat).

12. ECOLOGICAL INFORMATION

Toxicity This ecological assessment is calculated from data available on the components of the formulation. Harmful to aquatic organisms. Un-burned composition is non-selectively toxic to plants. Not readily biodegradable.



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13. DISPOSAL CONSIDERATIONS

Applies to unburned product.

Do not contaminate ponds, waterways or ditches with chemical. Dispose of product according to the requirements of the Environmental Protection Act 1990". Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

UN No. 1944
UN Pack Group III
AIR ICAO/IATA Class.- primary 4.1 Flammable Solid
SEA IMDG Class.- primary 4.1 Flammable Solid
Marine Pollutant :
Proper Shipping Name : Matches, Safety
ROAD/RAIL ADR/RID Class. : 4.1

5. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

EU Classification Not subject to the CHIP regulations

However Arctic-Products Ltd does give the following safety advice:

S2 Keep out of reach of children
S13 Keep away from food, drink and animal feeding stuffs.
S16 Keep away from sources of ignition- No smoking.
S28 After contact with skin, wash immediately with plenty of water.
UK Regulatory Information Health and Safety at Work act 1974
The Control of Substances Hazardous to Health

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC.

Disclaimer

The information on this sheet is not a specification. It does not guarantee specific properties. The information is intended to provide general guidance to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions and recommendations are not followed.